



Renault Trucks T High



renewalt-trucks.com



**RENAULT
TRUCKS**

Welcome on board your RENAULT TRUCKS vehicle

You have now taken possession of your new vehicle.

We hope that it brings you all the satisfaction you have the right to expect from it and which was the reason for your choice.

This driver's handbook gives you the information you need to:

- become familiar with your RENAULT TRUCKS vehicle and thus take full advantage of all the technical improvements it incorporates, in the best operating conditions;
- guarantee optimum operation on a permanent basis by the simple but rigorous observation of the service advice;
- resolve minor incidents not requiring input from a specialist without losing too much time.

RENAULT TRUCKS

NU 3964 - RENAULT TRUCKS T High

Public limited company with capital of €50,000,000

Head office: 99, route de Lyon

69802 Saint-Priest

Siret 954 506 077 00 120 - RCS LYON B 954 536 077

The manufacturer reserves the right to make any modifications deemed necessary during production.

This Operating Manual should therefore not be considered as a specification for the model in question.

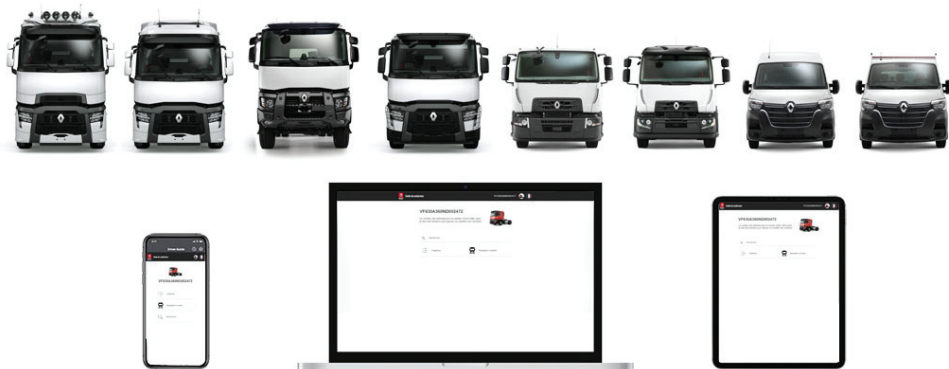
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Access to the Driver Guide



To use the Driver Guide:

- Go to:
<https://driverguide.renault-trucks.com/>
- or
- scan the QR code to find the driver guide app.
- or
- search for "...Renault Trucks Driver Guide" in your app download site.



You will find all the necessary information relevant to your specific Renault Trucks vehicle.

We reserve the right to make changes to this publication in the interests of constantly improving our output. The digital version will always contain the most up-to-date information.



Foreword

Welcome on board your RENAULT TRUCKS vehicle

The few moments you spend reading this handbook will be amply repaid by what you learn from it and the new technical features you will find in it. And if some points are still unclear, our network technicians will be pleased to provide you with any further information you wish to obtain.



Although intended to reflect your vehicle configuration as closely as possible, these instructions can sometimes mention certain options that are not available on this vehicle or images that offer slightly different solutions from those presented on your vehicle.

If in any doubt, please contact the nearest Renault Trucks service point.

Reference language

Our instructions are published in French then translated into your language by professional translators. Translation errors can nevertheless slip into our lines, so, in case of doubt, the French version of the digital Driver Guide will always prevail over all the others.

Reading notes:

The references, digits or letters mentioned in the text refer to two types of illustration:

- *Digits correspond to figures or photos near the text.*
- *Letters, possibly followed by a digit, correspond to the vehicle instrument panel diagram inside this handbook.*

Enjoy driving your RENAULT TRUCKS vehicle!

RENAULT TRUCKS: a cross-border service

RENAULT TRUCKS 24/7 has already been working in Europe for several years.

There are 19 emergency call centres ready to take your calls 365 days a year.

Spare parts homologated by RENAULT TRUCKS meet the requirements of the technical specification and comply with regulations. Only they can bring you:

- the safety of perfect conformity,
- the manufacturer's warranty,
- maintenance of the original specifications and performance.

General operating instructions for commercial vehicles

Whether you are a professional driver, a haulier driving your own wagon or a haulier entrusting the vehicle to one of your company employees, it is essential to follow and ensure the application of the following instructions; they are only a reminder of the basics of the trade and standard professional practice and in no way are to be taken as

exhaustive. In this way you will obtain the maximum benefit from your vehicle and prevent any risk of accidents and incidents.

1. Some basic instructions

- The driver must hold all the necessary licences and should drive only when physically fit and sufficiently rested.
- The vehicle must comply with the regulations in the country or countries in which it is used.
- Any dangerous goods indicator panels must be present and in good condition.
- Loads:
 - total or per-axle weights (regulatory or technical) must not be exceeded,
 - loading and securing of loads must be carried out using conventional procedures. Tarpaulins and side curtains must be correctly stretched and fastened, and doors and sideboards locked, etc.
- In the cab:
 - never carry dangerous products (petrol, trichlorethylene, thinners, etc.),
 - if an animal is carried, it must be kept away from the driving position.
- Access and descent:
 - use the steps and handles provided for this purpose. Never jump out of the vehicle. When descending, watch out for the traffic flow, particularly after a long period of driving,
 - extra care should be taken when weather conditions are bad (rain, snow, ice) or when it is dark.



- **USE IN CLOSED PREMISES:**
 - **NEVER LEAVE THE ENGINE RUNNING IN CLOSED AND/OR POORLY VENTILATED PREMISES. THE EXHAUST GASES CONTAIN HIGHLY TOXIC COMPONENTS. IN CONCENTRATION THEY CAN HAVE VERY SERIOUS EFFECTS ON YOUR HEALTH.**

2. Before getting into the vehicle, check:

- the general condition of your vehicle, visually (as per handbook),
- tyre condition, tyre pressures (including spare wheel), and the absence of any foreign body between the twin wheels,
- cleanliness of windows, windscreen, rear view mirrors, headlights and other lights, number plates,
- operation of regulatory and optional lighting systems,
- correct coupling of trailer or semi-trailer (hook, brake hoses, colour coding, electrical connector, etc),

- presence and contents of the on-board tool kit,
- in winter, the presence of snow chains and that they are securely fastened.
- that vehicles equipped with side guard panels and beams are permanently provided with this equipment. When removing/refitting, ensure that the locks are correctly locked and tighten the screws moderately.

3. On board

- Check the condition of the non-slip foot pedal covers.
- Ensure that the safety controls (steering wheel, foot pedals, gear lever, etc.) are never cleaned with a slippery product (such as silicone).
- Adjust your driving position,
 - steering wheel: ensure the steering column is locked,
 - seat: ensure it is correctly locked in place,
 - rear view mirrors,
 - seat belt: it is mandatory to wear this; use it,
 - child(ren) on board: comply with the legislation in force.
- Before starting, check:
 - that the gear selector lever is in the Neutral position.
- Check that all instrument panel indications are normal (if in doubt, refer to this driver's handbook).

Digital tachograph

- Check that the driver's card is in tachograph slot 1.
For a second driver, check that his card is in tachograph slot 2.
Check that the tachograph is working properly.

4. When on the road

- If you notice anything abnormal in the vehicle's operation, stop and find the reason. Do not set off again unless you are certain that it represents no serious technical or safety-related threat.
- When driving, the use of some of the standard, optional or added equipment is strictly forbidden (hand-operated sun-roof or hatch, television, on-board telephone, CB, etc.) or is permitted only if you take all the precautions necessary for road safety (cigar lighter, radio manual search function, etc.).
- Adapt your driving style to suit your load (banking or bend, high centre of gravity, etc.), taking account of weather conditions and the time of day.
If necessary, adjust the headlight beam levels.
- Never shut down the engine when the vehicle is moving (this will cut off the power steering and could reduce braking effectiveness).

5. When parking the vehicle

- Check that the vehicle is correctly parked (so that it does not obstruct traffic flow or threaten the safety of neighbouring installations).
- If the vehicle is going to remain stationary for some time, use one or more wheel chocks to prevent it from moving (semi-trailer compressed air leakage, black ice, etc.).
- Check that:
 - the parking brake is locked and holds the complete vehicle still (test position),
 - the gear selector lever is in the Neutral position,
 - the battery disconnect switch is switched off, depending on vehicle equipment,
 - the electromagnetic retarder is not energised,
 - the air vents are not blocked (independent heating).
- Do not leave in the cab:
 - important documents (personal documents, vehicle documents, documents related to the load),
 - unattended animals.

6. Moving away uphill

- To prevent the vehicle from rolling backwards when moving away on hills, it is recommended to apply the parking brake.

7. When repairing or servicing the vehicle



Prior to carrying out any work on the electronic air suspension (other than calibration), place axle stands under the chassis.

- Check the tightness of the wheel nuts according to recommendations.
- Before tilting the cab:
 - ensure that there is enough space at the front of the vehicle,
 - ensure that the parking brake is applied,
 - cordon off a safety perimeter around the cab and ensure that nobody enters this or parks inside it during cab tilt manoeuvres, or while the cab is tilted,
 - stop the engine,
 - put the gear selector lever in the Neutral position,
 - ensure that nothing will fall on the windscreen,
 - empty the refrigerator,
 - close the doors,
 - fully tilt the bull-bar if fitted on the vehicle,
 - open the bonnet/the radiator grille,
 - tilt the cab completely. If partly tilted, chock in place.
- With the engine running:
 - do not go near any moving parts (fan, drive belts, etc.),

-
- never disconnect the electrical power (stop the engine first).
 - Diesel fuel is flammable: if the fuel filler cap is open, do not smoke, avoid naked flames, and do not use your mobile phone in the vicinity.
 - Batteries are filled with acids (risk of serious injury); handle them with care.
 - If using an external starting aid:
 - use suitable cables,
 - respect polarities.
 - When changing a fuse, replace it with another fuse of the same rating.
 - Additional power lines should only be installed by specialists.
 - The installation of additional air lines requires a technical study carried out or approved by the manufacturer.
 - It is strictly forbidden to heat polyamide hoses (brake circuit pipes).
 - Raising the vehicle with a jack: chock the wheels prior to jacking.
 - Immobilising the vehicle: use one or more wheel chocks as necessary.
 - Wheels and tyres:
 - never check the pressure or inflate/deflate a tyre when hot,
 - never face the wheel when checking the pressure or inflating,
 - when fitting, it is particularly important to ensure that wheels fitted with rim clamps are centred (on Trilex wheels, position the rim clamp at the join of the segments),
 - Roadside repairs: collect all fluids that have been drained (oil, fuel, coolant, etc.).
 - To help protect the environment, comply with the legislation in force (recovery of oil, anti-freeze and cartridges).

When draining oil (engine, gearbox, drive axles), there is a risk of burns (hot oil).

When draining coolant, there is a risk of burns (hot fluid).

- Parking heater: use motor vehicle diesel fuel only.
- If anti-skid chains are used, the rear wings should be removed, road speed should be reduced and chain tension should be tested at regular intervals.

Any modification, especially to circuits (electrical, electronic or compressed air), can have serious consequences. Such work should only be undertaken with the agreement of the manufacturer. RENAULT TRUCKS declines any responsibility in the event of a non-compliant assembly.

Only genuine RENAULT TRUCKS parts and circuits defined by the manufacturer guarantee quality, safety and reliability.

By observing the above instructions, you will be using your vehicle in the best possible way. However, you must also carefully read the driving handbook and consult the RENAULT TRUCKS network whenever you need any further information.

We remind you that application of the contractual warranty by RENAULT TRUCKS is subject, among other things, to proof by the customer that servicing and maintenance of the vehicle have been carried out according to our recommendations (frequency, operations to be performed, quality of expendable and consumable products guaranteed by genuine certified or recommended spare parts, quality and training of repair mechanics and use of specific tools, etc.). Compliance with these recommendations will also guarantee the long-term reliability of the vehicle.

Servicing and maintenance performed by the RENAULT TRUCKS network will guarantee compliance with these recommendations. If these operations are performed outside our network, the customer must provide formal proof that our recommendations have been observed.

For all maintenance operations, consult a RENAULT TRUCKS garage.

Privacy notice for vehicle data

When you drive a product build by our company, some of the data generated by the vehicle (fuel consumption, road profile, vehicle use profile) could be processed. Such data may include personal data and are processed to develop and offer innovative products and services. We would like you to be fully informed about how we may process that information, as well as your rights. We shall always be transparent about what data are collected, how they are utilized, with whom they are shared, and whom to contact in case of any concerns. Renault Trucks policies are compliant with regulation about personal data protection.

If you would like to know more about Renault Trucks personal data protection policy, please visit the web site – <https://www.renault-trucks.co.uk>

Open Source Software

Your Renault Trucks vehicle contains various software programs. Some of those programs are open source software, which among other things means that you may have the right to gain access to the source code. This depends on the license terms for the respective software, as agreed between Renault Trucks with its affiliated companies and the respective licensors.

For further information about Renault Trucks' use of open source software and about where you can get access to the relevant source code, as well as the applicable copyright notices and developer credits, license terms and legal disclaimers, please visit <https://corporate.renault-trucks.com/en/opensource/>.

Statements of Compliance

Radio-electronic equipment in the vehicle

The following statement applies to all radio-controlled vehicle components, information systems and communication devices integrated into the vehicle:

Vehicle components operated by low and radio frequencies that are standard on RENAULT TRUCKS vehicles comply with the essential requirements and other corresponding paragraphs of the **RED 2014/53/EU**.

Declaration of simplified compliance for the radio

Aptiv Services Deutschland GmbH, 42367 Wuppertal, declares that the radio equipment linked to this vehicle works according to Directive 2014/53/EU.

The complete compliance declaration text is available at the following internet address:
[https:// www.aptiv.com/automotive-homologation](https://www.aptiv.com/automotive-homologation)

Certification of the radio

Frequency bands and output power levels		
Application	Frequency	Maximum power output
AM	153-279 kHz, 522-1611 kHz	-
FM	87.5-108 MHz	-
DAB	174.928-239.200 MHz	-
Bluetooth	2402-2480 MHz	9.5 dBm (9 mW)

Electromagnetic compatibility

The electromagnetic compatibility of the vehicle's components has been tested and approved in compliance with the **ECE-R 10** currently in effect.

Warnings

In this document, the safety instructions are represented as follows:



SAFETY POINT REQUIRING SYSTEMATIC INSPECTION BEFORE PUTTING THE VEHICLE BACK ON THE ROAD. FAILURE TO COMPLY WITH THE PROCEDURE DESCRIBED RISKS CAUSING SERIOUS INJURY OR EVEN DEATH.



Draws attention to special and important points, procedures or regulations in force that must be complied with.

***WARNING!** Any different or inappropriate working method risks causing bodily injury to persons and/or damage to products.*



***NOTE!** Draws attention to particular or important points of the method.*



Locking

Locking

Your vehicle is fitted with central locking. There are several ways to lock or unlock the cabin: the folding key, the remote control, the interior door handle and the dashboard switch

Keys

Write down here your remote control and key codes:

- Ignition:
- Doors:
- Remote control:

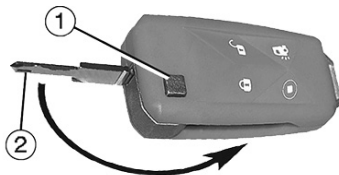
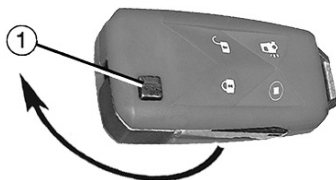
Flip key fob

Opening

Press button (1) to release the key blade.

Closing

Press button (1) and fold key blade (2) back until it locks.



Doors

Opening from the outside

Unlocking using a key in the lock (1).

Pull handle (2) downwards and pull the door.

Closing

Push the door until it engages automatically.

Lock using a key in lock (1).



Opening the door activates the roof lamp.



Opening from the inside

Unlocking:

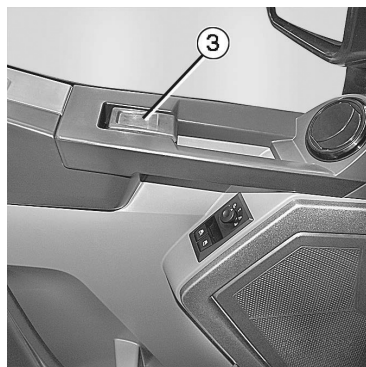
Lift handle (3) and push the door.

Closing:

Pull the door until it engages.

Locking:

With the door closed, tilt handle (3) downwards.

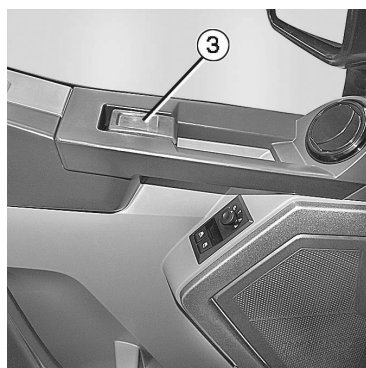


With the door open, handle (3) cannot be tilted downwards.

Central locking from the inside:

Central locking is done:

- Manually, with the doors closed, by pivoting handle (3) downwards,



- using the remote control, with the doors closed, by pressing on button (2) or (3),

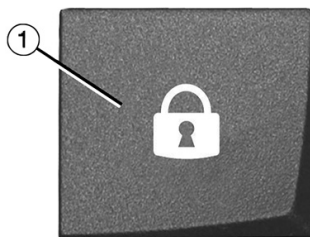


Locking

- using switch (1) on the dashboard.



When the door is open, central locking is neutralised.



Door unlocking

- unlocking of the door on the driver's side by pressing remote control button (1) once,
- unlocking of the door on the passenger side by pressing remote control button (1) again,
- unlocking of a door by turning the key in the lock



With the remote control

Locking the doors only

By pressing locking button (2), the direction indicators flash 4 times.



Locking the doors and powering down the vehicle

Press button (3). This action, indicated by 4 flashes of the direction indicators activates:

- lighting of the direction indicators for 1.5 seconds,
- the locking of the doors,
- switching on the general switch.

Unlocking the doors and powering up the vehicle

Press button (1). This action, indicated by lighting of the direction indicators, activates:

- switching off the master switch,
- the unlocking of the doors.

Protection of the door motors

If you perform the locking and unlocking action 10 times in less than 30 seconds, a protection function will disable the door motors for 30 seconds.



If, during a locking command, the flashing lights do not illuminate (despite them operating normally), this means:

- *that at least one of the doors is not closed properly,*
- *that there is a door locking actuator fault,*
- *that there is a receiver fault. In which case, lock the vehicle using the key.*

Automatic locking

If you unlock the doors using remote control button (1) without opening a door, the vehicle will lock automatically after 30 seconds.



In the event of an accident, the doors will not unlock automatically.



In the event of an attempt at locking with a door open, the closed door will lock then unlock.

Approach lights

Press button (4) once. This activates:

- the illumination of the parking lights,
- the continuous illumination of the direction indicators,
- the illumination of the foot board and the cab lighting.



Press button (4) for a 2nd time to switch off the approach lights.

Interior lighting

The vehicle is equipped with two roof lamps on the header shelf.

The illumination of these lamps is linked to the opening and closing of the doors, the locking and unlocking of the vehicle and finally to the position of the key in the ignition.

- When unlocking the doors via the remote control, the lamps illuminate for a period of 15 seconds.
- When opening a door, the lamps illuminate or remain illuminated, if they were already lit, for a period of 5 minutes.
- After closing the doors, the lamps remain illuminated for approximately 15 seconds.
- Stopping the engine activates illumination of the lamps for a period of approximately 15 seconds.
- Locking the doors causes the lamps to be extinguished immediately.

The illumination or extinguishing of the overhead lights can be forced by their respective switches.

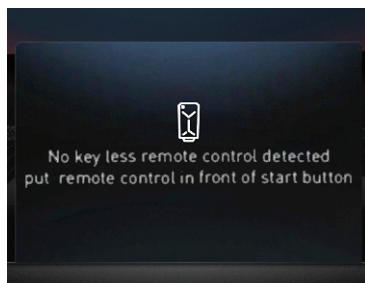
Replacing the battery

If the remote control battery becomes too low, a message will warn you on the main display. So quickly plan to replace this battery.

A message will appear on the main display if the remote control battery power drops too low. Make sure you replace the battery as soon as possible.



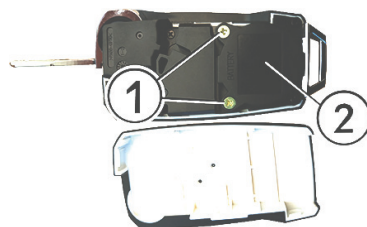
If the remote control battery becomes too weak to be detected by the vehicle, a message will appear on the display advising you to replace it.





If the key is not detected, position it under the start button as described in Starting the engine, see Engine start-up page 223.

Unscrew the fastener (1) then remove the protective cap (2).



Install new battery (3) by sliding it under the two hooks.

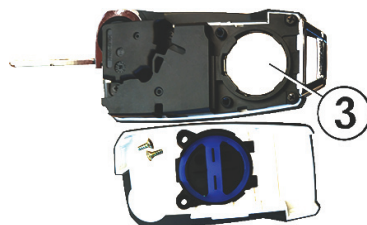
Respect the polarity shown on the battery support.

Press on the battery until the two retaining clips engage.

Reposition the battery cover plate in place and refasten the screws.

Close the casing.

Use an alkaline-type battery: **CR 2032-3V**.



Risk of explosion if the battery is replaced by an incorrect type of battery or if the polarity is not respected.

Dispose of the used battery in a site intended for this purpose.



Do not forget to record your key code. If lost, or if you require another set of keys or remote controls, please contact a RENAULT TRUCKS garage. Provide them with the key codes and vehicle paperwork.



Vehicle exterior

Safe access to the vehicle

How you enter the vehicle is important for guaranteeing your safety.

Whether you need to access your instruments and controls, equipment or the windscreen, always follow these simple rules:

- Always face the vehicle, whether climbing or descending.
- One hand, two feet... One foot, two hands... Always keep at least three limbs in contact with the vehicle.
- Watch where you put your feet and hands.
- If you are using something to assist you climbing onto the vehicle, make sure it is securely in place before putting your weight on it. Surfaces can be slippery!

Cab access



- **Up**
Use all the steps and grab handles provided for this purpose.
- **Down**

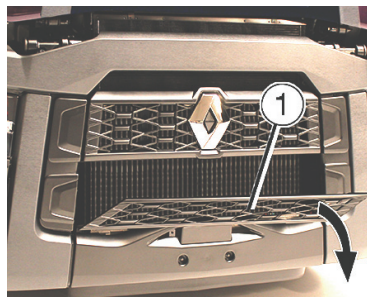
Use all the steps and grab handles provided for this purpose.

Never jump out of the vehicle.

Windscreen access

Step

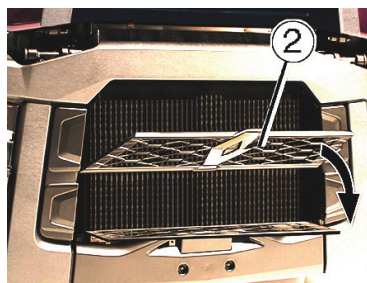
Open foot boards (1) and (2).



Do not open the upper foot step by pulling it by the middle.



Support the steps when opening. Do not let go of them!





With the windscreen wiper control in the "Off" position, use grab handles (1) and foot boards (2) to gain access to the windscreen. Close foot boards (2) after use.



Before setting off, ensure that foot boards (2) are closed. If the lower foot board remains open, the anti-collision system will not function.

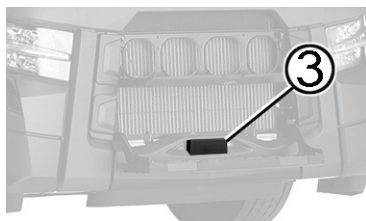
STOP

IN SOME CASES, THE KEY MAY BE DETECTED BY THE VEHICLE EVEN IF IT IS OUTSIDE LESS THAN ONE METRE FROM THE CAB.

BE CAREFUL, ESPECIALLY WHEN YOU WALK IN FRONT OF THE VEHICLE OR IF YOU ACCESS THE WINDSCREEN AREA - RISK OF UNINTENTIONAL DAMAGE TO CERTAIN SYSTEMS, SUCH AS THE WINDSCREEN WIPERS.



Be careful not to accidentally knock the front anti-collision radar (3) with your leg.



Bonnet

Raising your vehicle's bonnet will give you access to important parts, such as the wiper linkage or the expansion tank.

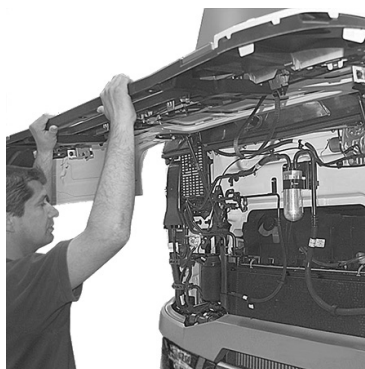
Unlock the bonnet by manipulating the hook (1).



Pull on the lower section of the bonnet to open it. Push it back to close it.

STOP

WHEN WORKING ON THE FRONT END OF THE VEHICLE, WITH THE BONNET OPEN, ENSURE THAT THE WINDSCREEN WIPER CONTROL IS IN THE OFF POSITION. INDEED, IT MAY BE DANGEROUS TO PLACE YOUR HANDS ON THE WINDSCREEN WIPER LINKAGES.



STOP

UNDER CERTAIN CONDITIONS, THE KEY MAY BE DETECTED BY THE VEHICLE, EVEN IF IT IS OUTSIDE, LESS THAN ONE METER FROM THE CABIN. STAY CAUTIOUS, ESPECIALLY WHEN YOU PASS IN FRONT OF THE VEHICLE, OR IF YOU ACCESS THE WINDSHIELD BAY THERE IS A RISK OF SOME SYSTEMS STARTING UP UNEXPECTEDLY, SUCH AS THE WINDSHIELD WIPERS FOR EXAMPLE.

Exterior storage compartment

Your Renault Trucks vehicle is fitted with storage spaces that can be accessed from outside the cab.

Cab storage compartment

Upper lockers

Left-hand side

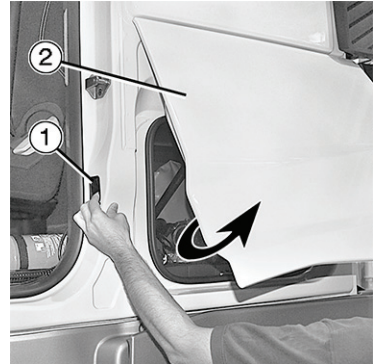
Opening

Press control (1) to unlock the door. Lift the door (2).

A light comes on when the door opens.

Closing

Push the door (2). Locking is automatic.



Right-hand side

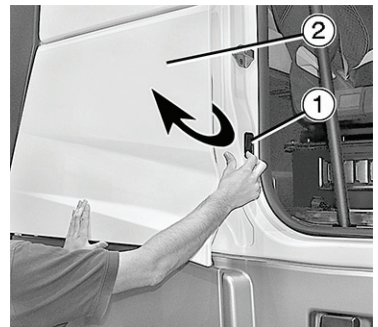
Opening

Press control (1) to unlock the door. Lift the door (2).

A light comes on when the door opens.

Closing

Push the door (2). Locking is automatic.



Exterior storage compartment

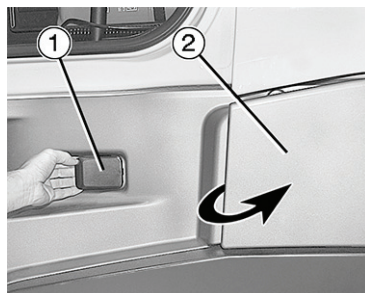
Lower lockers

Left-hand side

Opening

Pull on control (1) to unlock the door. Lift the door (2).

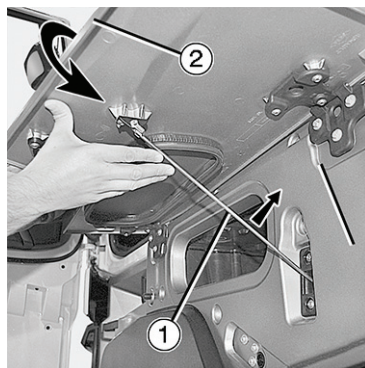
A strut holds the door open.



Closing

Free strut (1) by pushing it upwards and close the door (2).

Locking is automatic.

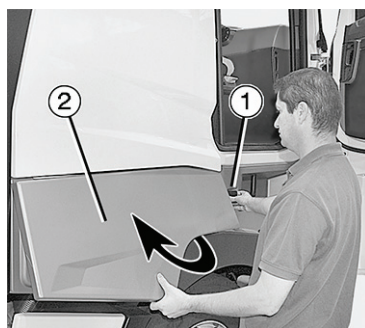


Right-hand side

Opening

Pull on control (1) to unlock the door. Lift the door (2).

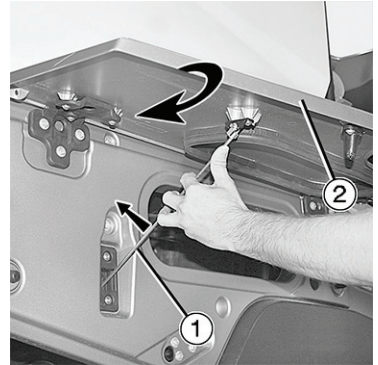
A strut holds the door open.



Closing

Free strut (1) by pushing it upwards and close the door (2).

Locking is automatic.



Fuel tank(s)

DON'T FORGET to ensure maximum cleanliness when handling diesel.

Make sure that the tank is properly filled to avoid condensation from forming. But do not overfill it either to avoid fuel spilling on the roadway.

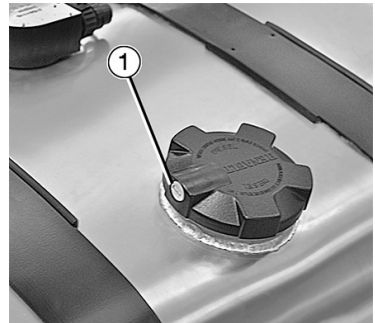
When refuelling, you must always make sure that the area around the filling inlet and the cap is clean. Make sure to filter the fuel from your own tank or drum and check that all the containers are clean.

Filler cap

The cap is locked by means of a lock (1).



To avoid moving off without refitting the cap on the tank, the key cannot be withdrawn while the cap is removed.



Use only commercially available diesel for motor vehicles (Standard EN 590).



Do not use the key for any purpose other than to lock and unlock the tank filler cap.

Vehicle fitted with two tanks



The diesel fuel level indicator indicates the total capacity of the tanks.



When adding fuel, it is recommended to put fuel in the two tanks.

STOP

SWITCH OFF THE PARKING HEATER BEFORE FILLING THE TANK(S).

Fuel labels

Modern engines are very sensitive to the quality of the fuel used. To guarantee optimum operation and the best possible cleaning of exhaust gases, the legislators have decided to impose a clear and precise code on fuel manufacturers and distributors, details are given in this chapter.

Label read mode

Fuel compatibility labels

On your vehicle fuel tank(s), a label like the one shown below indicates which types of fuel are compatible with your vehicle, based on the certificate level of your vehicle.

The logos (1) represented on the label are the logos that you will find on the fuel pumps at a service station.

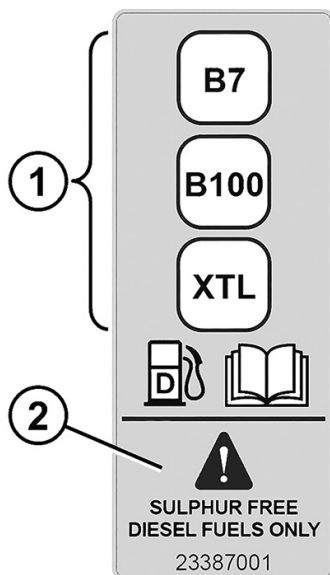
Please refer to the table for more details about the meaning of each logo.



The note (2) informs you that only fuels that contain less than 10 ppm of sulphur are permitted.









Before filling your vehicle with fuel, please refer to the label affixed to the vehicle fuel tank(s). This label indicates which types of fuel are compatible with your vehicle.



Meaning of the logos shown on the labels

The table below gives the meaning of each of the current logos.

LOGO	Relevant standard	Indicates that your vehicle is compatible with
	EN-590	Fuels that contain up to 7% Bio-diesel (Standard diesel in Europe)
	EN-16734	Fuels that contain up to 10% Bio-diesel
	EN-16709	Fuels that contain from 14 to 20% Bio-diesel
	EN-16709	Fuels that contain from 24 to 30% Bio-diesel
	EN-14214	Fuels that contain up to 100% Bio-diesel (See Caution* below)
	EN-15940	Paraffinic fuels obtained by synthesis or hydro-treatment (example: HVO, GTL, etc.)



**If the B100 logo is shown on the label, your vehicle is compatible with fuels type B7, B10, B20, B30 and B100, on the strict condition that they comply with the standards mentioned.*



All the fuels can be used on their own. Fuels type B7, B10 and XTL are fully interchangeable. If you regularly or occasionally use B20, B30 or B100, please contact a RENAULT TRUCKS Service Point for details of fuel change methods and maintenance intervals.

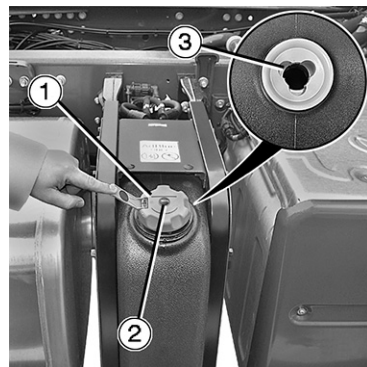
AdBlue tank(s)

The use of an additive for post-treatment of exhaust gases is mandatory to meet anti-pollution standards. It is forbidden by law to drive without AdBlue and it can cause irreversible damage to your engine.

Blue-coloured filler cap (1).

The cap is locked by means of a lock (2).

The tank filler neck is equipped with a fool-proofing device (3) which prevents any incorrect equipment from being inserted, to prevent any product other than AdBlue from being added.



Use only commercially-available AdBlue motor vehicles (Standard DIN 70070).



When filling the tank, it is essential to insert the fuel pump nozzle fully into the filler opening and to hold it in position to ensure that a sufficient volume of air remains on top of the AdBlue.



When handling AdBlue, use only type-approved containers and pumps that are clean and used only for this purpose.



It is forbidden to replace AdBlue by any other product or add any other product to it or else vehicle pollution control will no longer be achieved and you will run the risk of damaging the post-treatment system.

AdBlue tank



If you note that the AdBlue you are using for your vehicle is contaminated, in no event should you start your vehicle; contact a RENAULT TRUCKS garage.

You are recommended to check the AdBlue level in the tank each time the vehicle is filled with fuel.



The use of AdBlue is essential to the correct operation of the vehicle and for abiding by legislation in force.

Not using AdBlue may be considered an offence.



When draining the AdBlue tank, it is essential to refill it with at least 7 litres of AdBlue to prevent any damage to the after-treatment system.



Do not reuse AdBlue that has been drained from a tank.



AdBlue must always be handled with care; it is a corrosive agent.

AdBlue must never come into contact with other chemical products.

If it is spilled on the vehicle or if there is a leak, wipe off the excess with a cloth and rinse with water.



IF ANY ADBLUE IS SPLASHED ONTO THE SKIN OR INTO THE EYES, RINSE THOROUGHLY WITH WATER.

IN CASE OF INHALATION, BREATHE FRESH AIR.

CONSULT A DOCTOR IF NECESSARY.

Master switch



When the electrical circuit is open, the refrigerator, the air conditioning systems and parking heaters are no longer operational.

When the vehicle stops, depending on your vehicle's equipment, if you do not switch off the electrical power supply using the remote control, the system automatically goes into low consumption mode after:

12 hours if you leave the key in the cab.

2 hours if you remove the key from the cab.

This time period is configurable by a RENAULT TRUCKS garage.



*For working with an electric door locking remote control with master switch control, refer to the **Locking and Alarm** chapter for details of how to use it.*



Cab tilting

General information on the cab tilting

Before tilting the cab, check that:

- the ignition is switched off,
- the parking brake is applied,
- the gear shift control is in the "N" (Neutral) position,
- the storage compartments are locked,
- no object inside the cab could be thrown towards the windscreen,
- the doors are fully locked,
- the area in front of the vehicle is unobstructed.



Never tilt the cab while the engine is running.

Before starting the engine, check:

- cab raised: the gearbox neutral position;
- cab lowered: the gearbox neutral position, ensuring it is working correctly.

When working underneath the cab (on the engine, etc.), the cab must be fully tilted.

Any operation on the cab tilt hydraulic circuit requires the application of safety instructions and must be carried out at a RENAULT TRUCKS garage.



Before tilting the cab, check that the parking heater is OFF.

The service cover **must** be opened before the cab is tilted in order to avoid damage.



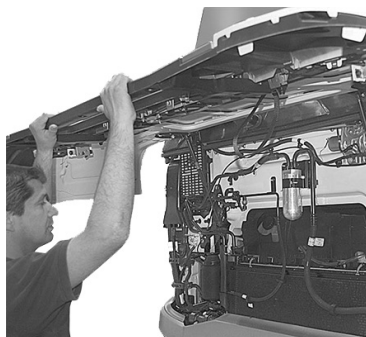
Before tilting the cab:

- open the bonnet,
- lock the storage lockers,
- empty the bottle storage,
- stop the refrigerator.

Mechanical control

With the vehicle immobilized, engine shut down, gear lever in neutral, doors properly closed, make sure that no loose articles inside the cab can be thrown against the windscreen. Clear the area in front of the cab.

Open the bonnet.



Unclip the control bar (1).



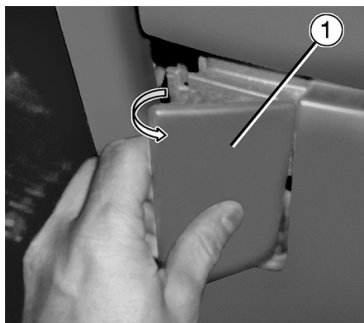
Open the access door (1).



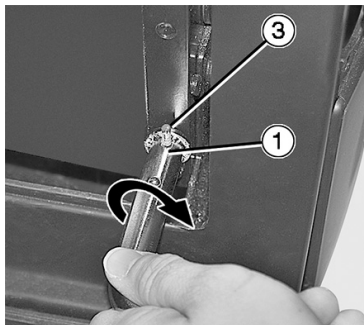
Open the access door (1).



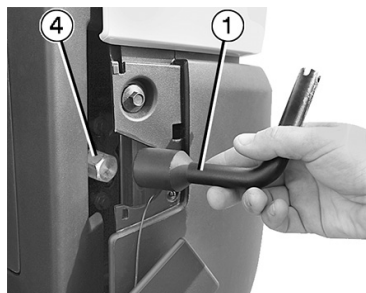
To open, pull the rear section of hatch (1) to unclip it without damaging it.



Position lever (3) in the "Up" position. Use the control bar (1).



Position control bar (1) on cab tilt pump (4).

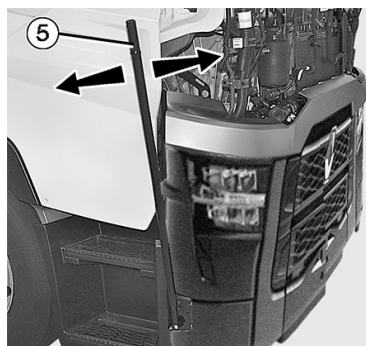


Unlocking is automatic, pump until the cab is tilted completely. Use jack handle (5) from the tool kit, assembled with control bar (1). Insert the jack handle fully.

To return the cab to the road position, set lever (3) to the "Down" position. Pump until the cab locks automatically and the pump handle becomes harder to move.

Check that the air intake bellows is positioned correctly.

Make sure that the two cab locking catches are locked correctly.

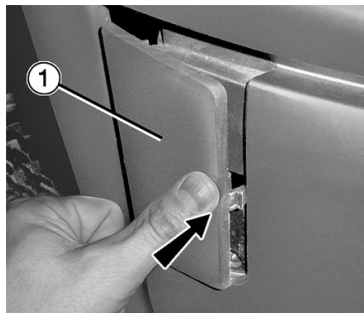


Closing the hatches

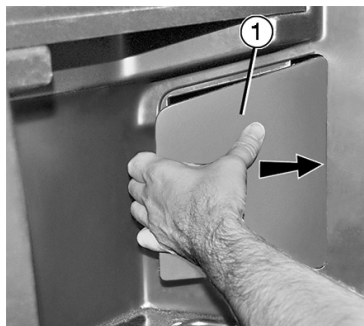
Engage the two hatch clips (1).



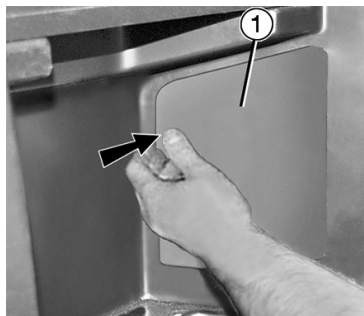
Push hatch (1) to engage the clip correctly.



Insert the part in front of the hatch (1).

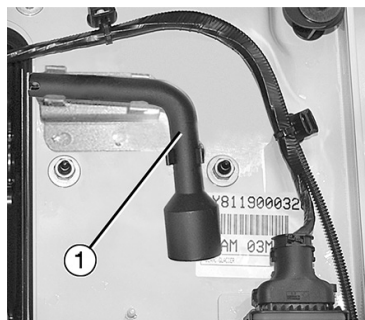


Apply pressure to the rear part of hatch (1) to secure it.



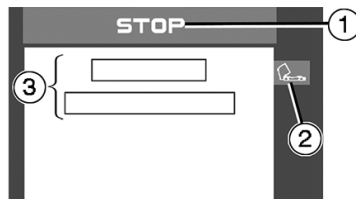
Clip the control bar (1).

Close the bonnet.



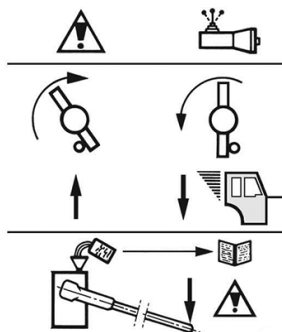
STOP warning light (1), warning pictogram (2) and a related message (3) are displayed to inform you that the cab has not been locked properly; repeat the cab tilt manoeuvre.

If the anomaly persists, contact a RENAULT TRUCKS garage.



In the event of difficulties with tilting, put the cab in the "road" position and check the oil level. Top up the level if necessary.

Carefully complete a tilting manoeuvre (raise and lower). In the event of incorrect operation, visit a RENAULT TRUCKS garage.



Cab tilt hydraulic circuit

Cab tilt hydraulic circuit

Open the access door (1).

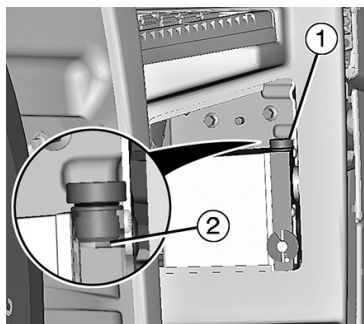


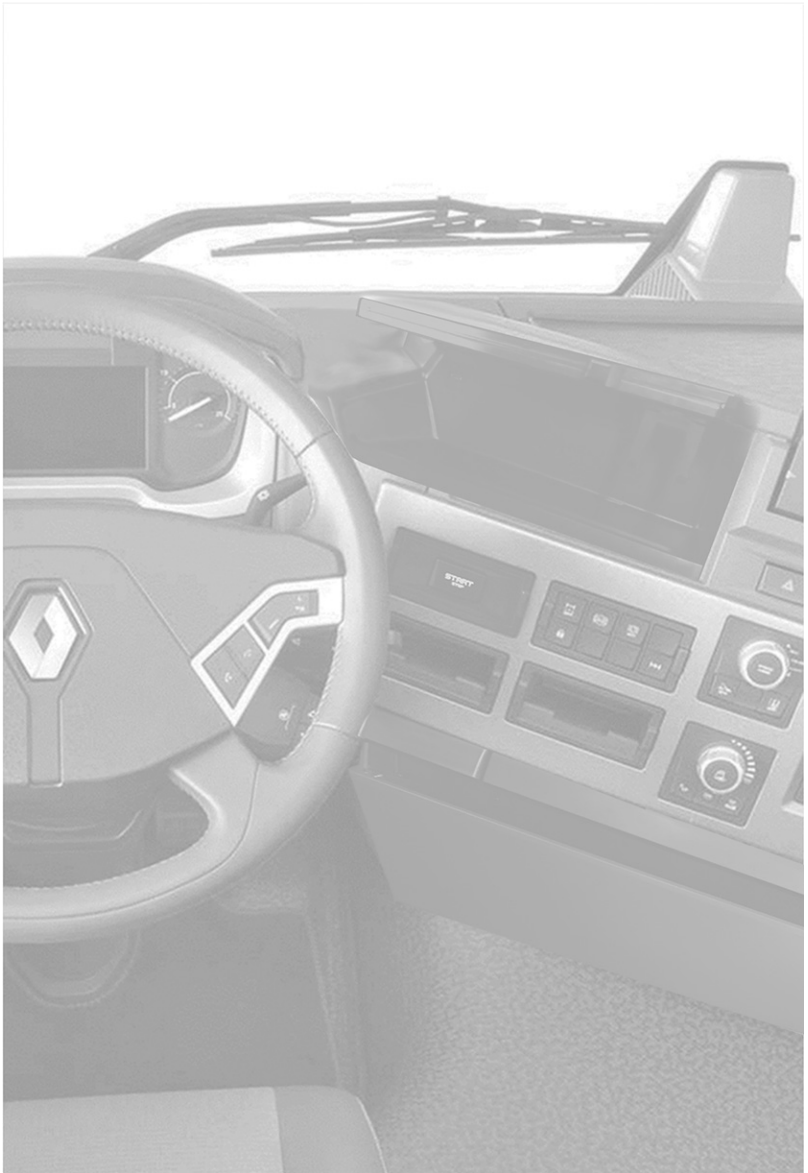
Filler and level

With the cab in the "road" position, fill with oil through oil reservoir filler port (1).

Check the oil level: the oil should be flush with the top of piston (2) when the piston is in the "down" position.

Carefully complete a full tilt manoeuvre (raise and lower) and check the level again. In the event of incorrect operation, visit a RENAULT TRUCKS garage.





Driver environment

Driving position

A comfortable driving position is essential. This will enable you to:

- always keep a clear view of the road, your instrument displays and dashboard,
- make sure you have quick access to all your controls,
- enjoy greater comfort and less fatigue.

Make sure you follow the different stages of getting into your vehicle in the correct order:

1. adjust the seat position,
2. adjust your steering wheel,
3. adjust your seat,
4. adjust your mirrors,
5. fasten your seat belt.



STOP

ADJUST YOUR DRIVING POSITION ONLY WHEN THE VEHICLE IS STATIONARY!



Even though they may be tempting to hold onto, do not use the steering column, dashboard or parking brake control as grips to help you get up.

Support yourself directly on the seat, the grab handles or the armrests, which are designed for this purpose.

Seat cushion adjustment

Sit back in the seat and extend your left leg towards the back of the compartment, where a clutch pedal would be on a vehicle with a manual gearbox.

You can tell the correct setting is reached when your leg is slightly bent, with your thigh flat on the seat.

To adjust your seat, please see the section on Seats, see Seats page 51 in this manual.

Steering wheel adjustment

Once you have adjusted the position of the seat, we can move on to the steering wheel. The steering wheel should be positioned in such a way that you can see the whole instrument display, without the edge of the wheel coming into contact with your legs, even when you shift from the accelerator to the brake pedal and vice versa.

To adjust your steering wheel, please refer to the section on Steering wheel adjustment, see Steering wheel adjustment page 69 in this manual.

Steering wheel adjustment

Keeping your arms straight, wrists resting on the top of the steering wheel, in the "quarter past nine" position, pull the back of your seat until it is perfectly in contact with your own back. Bring the headrest back until it is touching your head.

To adjust your seat, refer to the Seats, see Seats page 51 section of this manual.

Seat back adjustment

Now adjust your mirrors. Adjustments should be made with your head resting on the headrest. You should maintain a view of your vehicle over a small part of the mirror to make sure you have some visual reference points.

To adjust your mirrors, refer to the Electric exterior mirrors, see Rear view mirrors and visibility page 68 section of this manual.

Mirror adjustment

Seatbelt adjustment

- the collarbone,
- the sternum,
- the hip.

It should lie flat, with no twisting. The belt must fit snugly against you: clips and other devices that alter the belt position should be avoided, as they reduce the belt's effectiveness in the event of a collision.

To adjust your seat belt, please refer to the Seat belts, see Seat belts page 184 section of this manual.

Seats

Your Renault Trucks vehicle seats can be adjusted to adapt to your body shape and ensure your comfort.



For safety reasons, it is essential to remove the plastic protective film when commissioning the vehicle.

Pneumatically-controlled seats

The controls are operational when there is sufficient air pressure.

Driver and passenger seats



Depending on the seat configuration (driver's, passenger, left-hand drive, right-hand drive), the controls are located on one side or the other of the seat. The type of seat shown is only one solution.



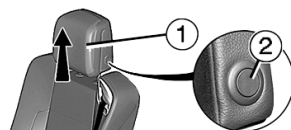
FOR SAFETY REASONS, ALL SEAT ADJUSTMENTS MUST BE MADE WITH THE VEHICLE STATIONARY.

THE USE OF THE SEATS IN A POSITION OTHER THAN BACK REST UP WHILE THE VEHICLE IS BEING DRIVEN IS THE RESPONSIBILITY OF THE USER.

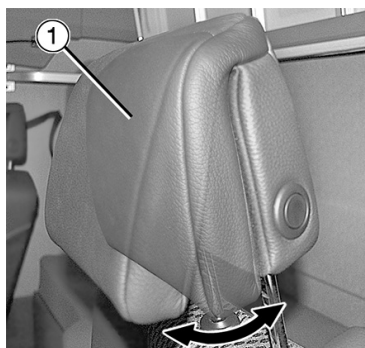
Head restraint

Adjust head restraint (1) to the required height.

To lower head restraint (1), press button (2) and push head restraint (1) downwards.

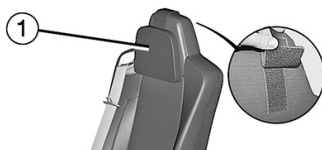


Adjust the angle of head restraint (1) manually.



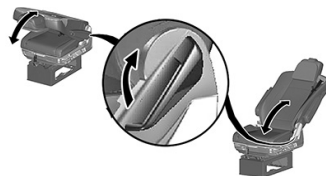
Passenger headrest

Set head support (1) to the required position.



Backrest tilt adjustment (driver/passenger)

Backrest tilt adjustment and rest position lever (it is forbidden to use this position for driving).

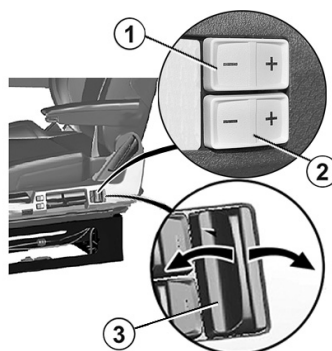


Driver's backrest comfort settings

"Upper" lumbar support adjustment (1).

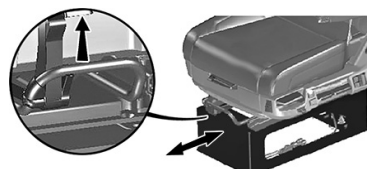
"Lower" lumbar support adjustment (2).

Backrest side support adjustment (3).

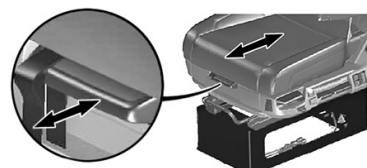


Seat adjustments

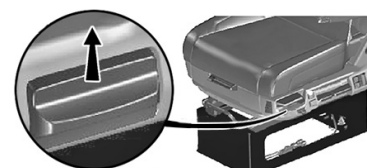
Longitudinal seat adjustment (driver/passenger).



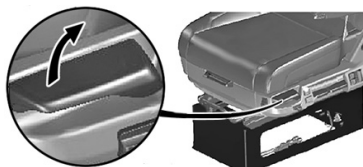
Driver's seat base depth adjustment.



Driver's seat base side support adjustment.



Seat tilt adjustment (driver/passenger).



Vertical suspension settings

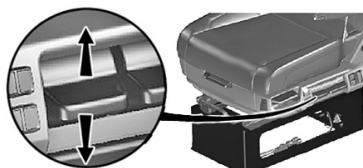
Adjust the flexibility of the suspension depending on the condition of the road and the weight of the user.

Softness adjustment of the 'vertical' seat suspension (driver/passenger).

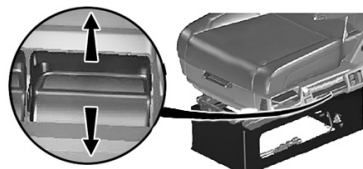
At top: suspension firm.

At bottom: suspension soft.

By positioning the control fully at the bottom, the suspension is locked in the selected position (driver's seat only).



Seat height adjustment (driver/passenger).

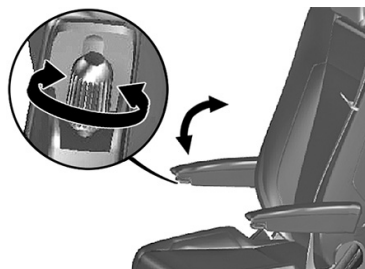


Quick lowering of the suspension (driver's seat)



Armrest adjustment

Adjustment of the corresponding arm rest angle.



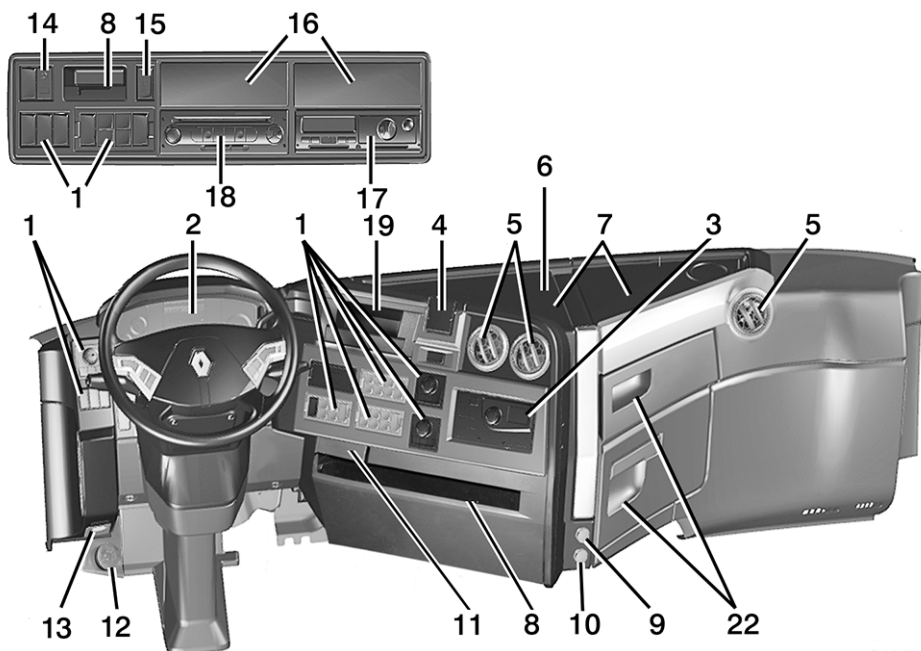
Passenger seat tilt

Control (1) tilts the seat back rest and moves the seat forward to make accessing the bunk easier from the passenger side.



Dashboard

get familiar with the dashboard of your Renault Trucks vehicle. So you will know exactly how to optimise your comfort, and how to use each function.



- 1 - Switches
- 2 - Information display
- 3 - Ventilation and air conditioning control panel
- 4 - Parking brake electrical control
- 5 - Air vents
- 6 - Fuses
- 7 - Drop-leaf table with non-slip surface (for use only with the vehicle stationary)
- 8 - Storage drawer
- 9 - 24 V socket (360 W max.)
- 10 - 12 V socket (120 W max.)
- 11 - Cup holder

- 12 - Steering wheel adjustment control
- 13 - Diagnostic and Infomax "OBD" socket
- 14 - Auxiliary socket
- 15 - Mic
- 16 - Locations for pre-arrangement(s)
- 17 - Tachograph location
- 18 - Radio
- 19 - Storage compartments (only to be used when the vehicle is at a standstill) and tablet/phone holder

Key to switches

Take the time, before starting, to find or move the switches for functions that are useful.

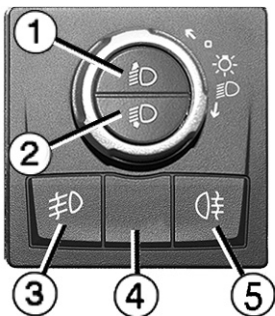
Movable switches

The location of most of the switches can be easily adapted to your needs. However, some cannot be moved for safety reasons. For more information, contact an approved Renault Trucks workshop.

Dashboard (side location)



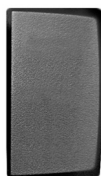
The location of the switches is given as an indication only and may be modified in the factory depending on vehicle options.



- 1 - Headlights beam height adjustment control
- 2 - Lighting mode selection ring

Driving position

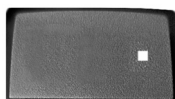
- 3 - Fog driving lights control
- 4 - Blanking plate
- 5 - Fog lights control



- Blanking plate



- Bodybuilder equipment control



- Bodybuilder equipment control

Dashboard (central location)



The location of the switches is given as an indication only and may be modified in the factory depending on vehicle options.



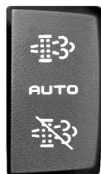
- Driver Alert Support system disabler control



- ASR disabling control



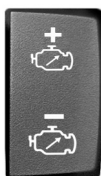
- Revolving beacon(s) control



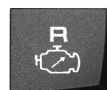
- Particulate filter regeneration control (Euro VI)



- Roof vent control



- Fast idle speed regulation control



- Fast idle speed recall control



- Fast idle ON/OFF control



- 4x2 inter-wheel differential locking control



- Bodybuilder equipment control



- Blanking plate



- Hill-start assist control



- Retarder control (manual/automatic)



- Interior lighting control



- Red interior lighting control

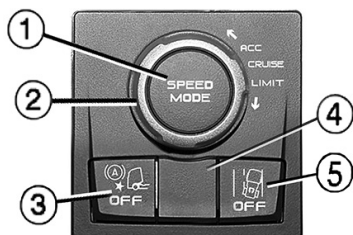


- Remote lights control



- Central door locking control

Cruise control rotary control



- 1 - Cruise control ON/OFF control
- 2 - Cruise control/speed limiter mode rotary control
- 3 - AEBS system deactivation control
- 4 - Blanking plate
- 5 - Lane departure warning system deactivation control

Header shelf



The location of the switches is given as an indication only and may be modified in the factory depending on vehicle options.



- Front sun visor control



- Mic



- Auxiliary socket and USB socket



- Geolocation control

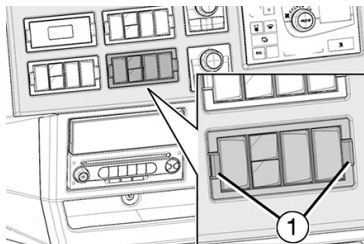


- Additional lights control

Repositionable switches

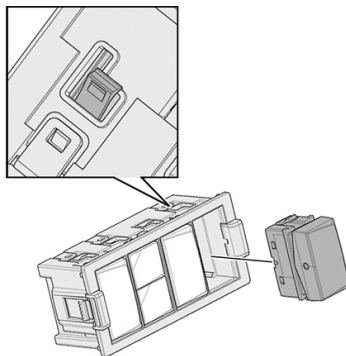
Removing a repositionable switch

First remove the module from the dashboard by pulling on the two tabs (1).



Press the tabs.

Pull the switch from the module.

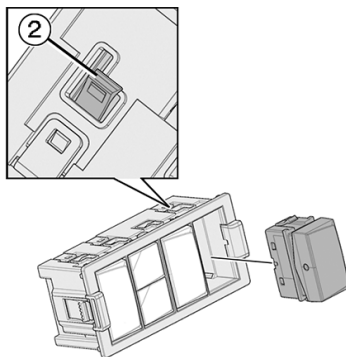


Fitting a repositionable switch

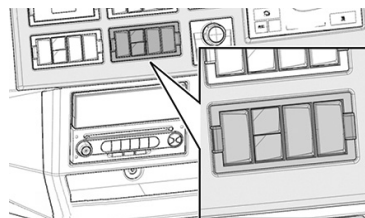
Insert the repositionable switch in the location chosen.



Ensure that the switch is inserted sufficiently, carry out a visual inspection of clip to do this (2).



Reposition the module in its location.



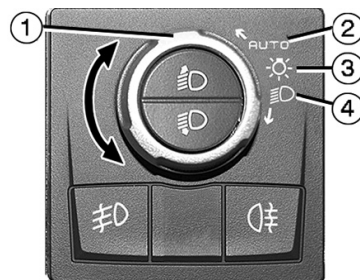
Combined lights and horn stalk switch

Lighting

Automatic mode

Default position (2).

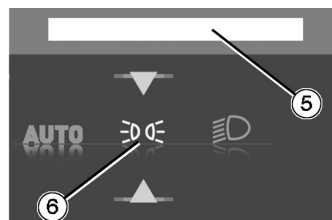
In this mode, the dipped beam headlights will be switched on automatically as soon as daylight is inadequate or when entering a tunnel.



Parking lights (position lights)

Turn control (1) to position (3).

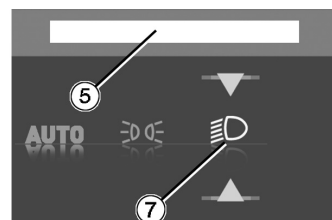
In the "Exterior lamps" section (5), warning pictogram (6) indicates that you are in parking lights mode.



Dipped beam headlights (low beam)

Turn control (1) to position (4). Pictogram (U) lights up.

In the "Exterior lamps" section (5), warning pictogram (7) indicates that you are in dipped beam headlights mode.





If the dipped beam headlights pictogram is no displayed, check the operation of the dipped beam headlights; if necessary, replace any defective bulbs (refer to the **Servicing and Maintenance** section).

If the cause of the fault is not the bulbs, visit a RENAULT TRUCKS garage.

Main beam headlights (high beam)

With control (1) in position (4), move steering wheel-mounted control (5) towards you. Pictogram (V) lights up.

To return to the dipped beam headlights position, move steering wheel-mounted control (5) towards you again. Pictogram (U) lights up.

Automatic lighting mode is automatically activated.

In the "Manual lighting mode" section (3), indicator pictogram (4) indicates that you are in automatic mode.



Extinguishing

Turn control (1) anticlockwise until the parking lights are extinguished.



Audible alarm

When a front door is opened, an audible alarm is triggered (and a warning will appear on the display) to warn you that the lights are still on after the ignition has been switched off (discharging the accumulator batteries).

Fog driving lights and fog lights

Press buttons (1) and (2) in the parking lights or dipped headlight position. Indicator pictograms (T) and (S) are displayed.



When the front fog lamps are lit, the main beam headlights cannot be used.

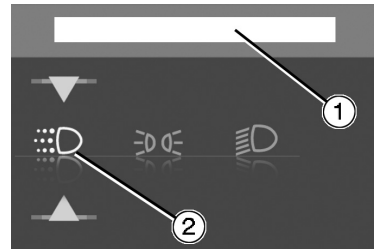


The button (1) controls the fog lamps at the front of the vehicle.

The button (2) controls the fog lamps at the rear of the vehicle.

The daytime running lights "DRL" will be automatically lit when the parking lights go out.

In the "Exterior lighting" section (1), indicator pictogram (2) indicates that the daytime running lights are lit.



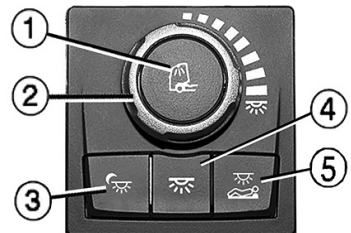
Brightness adjustment

The instrument panel lighting intensity is reduced when the lights are switched on.



When the parking lights are lit, turning courtesy light control (2) will vary the brightness of the instrument panel lighting.

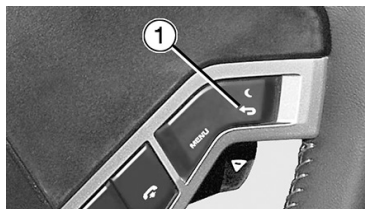
For vehicles without an overhead light control (2), use menu a1 to adjust the brightness of the instrument panel lighting.



Minimum brightness setting

Pressing and holding button (1) reduces the lighting intensity of the central part of the multifunction information display to the minimum.

To return to the normal lighting intensity of the multifunction information display, press on the "MENU" button.



The lighting intensity of the multifunction information display automatically returns to normal when an alert message is displayed.

Direction indicator

Operate steering wheel-mounted control (5) parallel to the steering wheel.

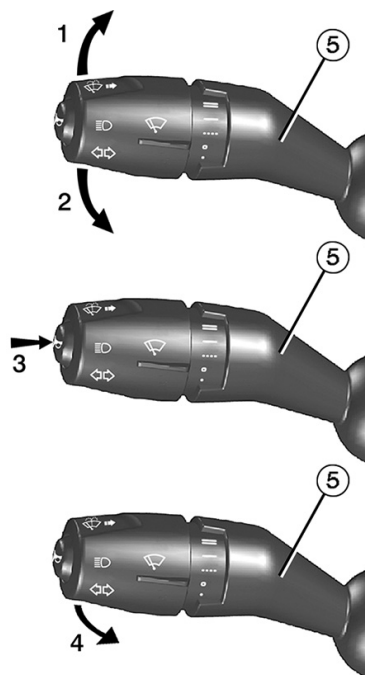
Position (1): RH direction indicator.

Position (2): LH direction indicator.

Control (5) returns automatically.



The warning lights associated with the direction indicator inform you of the state of the system.



Warning buzzer

Press button (3) on steering wheel-mounted control (5).

Warning light

Press steering wheel-mounted control (5) towards you. Pictogram (V) lights up.

Windscreen wash/wipe control

Keeping the control in position (1), activate the windscreen wiper and the windscreen wash at the same time.

When you stop pressing on the control, windscreen wiper operation cuts off after a few sweeps.

Depending on your vehicle's equipment

Operate the control parallel to the steering wheel.

Position (2): touch mode.

Position (3): park.

Position (4): intermittent wiping or automatic "rain sensor" mode (the system detects water on the windscreen and starts sweeping the windscreen at a suitable wiping speed).

Position (5): slow wiping.

Position (6): fast wiping.



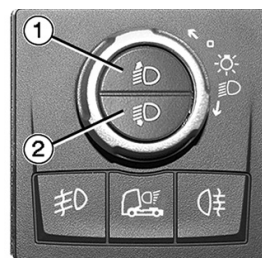
Whenever the ignition is switched off, it is essential to return to park position (3) to return to automatic "rain sensor" position (4).

Headlight adjustment

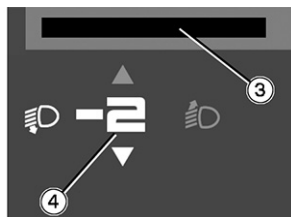
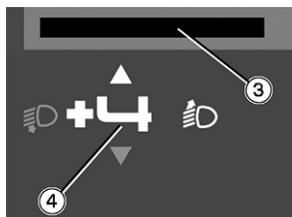
To see and be seen correctly without dazzling other road users, take care to adjust the height of your headlights whenever there is a change in the vehicle load.

Vehicle unladen: press on button (1) to raise the headlight beam.

Vehicle laden: press on button (2) to lower the headlight beam.



In "Headlight adjustment" area (3), a warning pictogram (4) indicates the adjustment value.



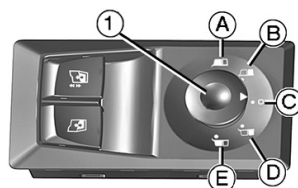
Rear view mirrors and visibility

To guarantee safety for you and other road users, it is essential to take the time to adjust your door mirrors.

Electrically-controlled exterior rear view mirrors

Position control (1):

- to (A) to adjust the left-hand lower door mirror;
- to (B) to adjust the left-hand upper door mirror;
- to (C) to make it inactive;
- to (D) to adjust the right-hand upper door mirror;
- to (E) to adjust the right-hand lower door mirror.



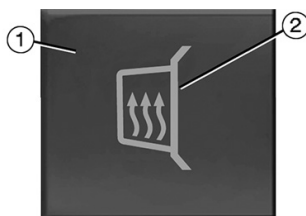
Adjustment

Select the door mirror to adjust then operate the control. This is omnidirectional.

De-icing

De-icing is operated using heater temperature control panel control (1).

Warning pictogram (2) is lit during the de-icing function.



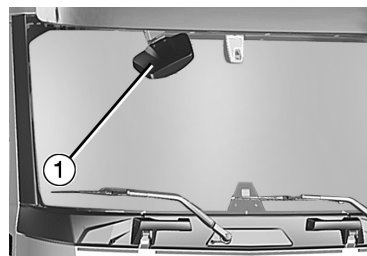
The rearview mirror de-icing function is active only with the engine running.

Forward view mirror

Forward view mirror (1) provides a panoramic view of the front of the vehicle from the driver's seat.



Forward view mirror (1) must be folded in when washing the vehicle in a roller car wash.



Steering wheel adjustment

Your Renault Truck steering wheel can be adjusted to adapt to your body shape and ensure your comfort.



BEFORE UNLOCKING THE STEERING COLUMN, MAKE SURE THAT THE VEHICLE HAS STOPPED IN A SAFE PLACE, AND THAT THE PARKING BRAKE IS ON.

Unlocking

Press the control (1) with your left foot.

You can make any adjustment you want while you keep your foot pressed down on the control.



Control (1) is operational when the air pressure in the circuit is sufficient.



Driving position

Adjustment options:

- forward,
- rear,
- up,
- down,
- angular.



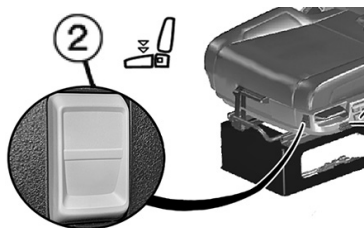
Locking

Release the control (1) with your left foot.



Do not apply lateral forces to the steering wheel while the system is unlocked for position adjustment.

The **Easy access** position (2) makes it easier for you to enter and leave the vehicle.



Tachograph

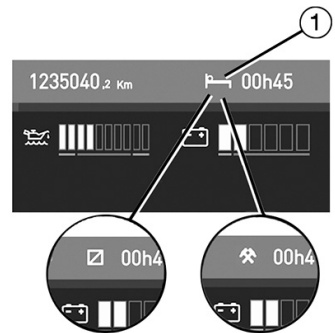
Generalities

The tachograph has separate instructions for use in the pocket for the driver's manual.

The tachograph records the speed and the driving and rest time. The drivers, companies and authorities can use the recorded information to check that the rules are being followed.

The tachograph is located in the panel above the windscreen, driver's side.

The multifunction information display indicates the driver activity (1) depending on the selection of the chosen tachograph.

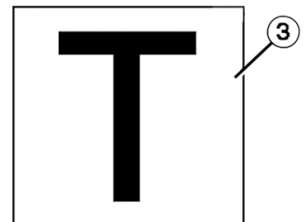


To prevent damage to the tachograph, carefully read manufacturer's user guide supplied with your vehicle's on-board documents .

If warning pictogram (3) is displayed, ensure that:

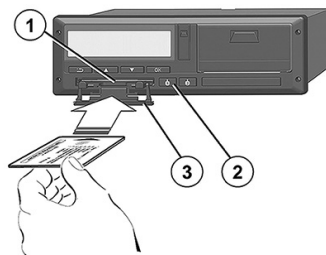
- The driver card is present in card reader (1) of the tachograph.

Otherwise, go to the nearest RENAULT TRUCKS garage at the earliest opportunity to have the repair carried out.





The vehicle must be stopped and the ignition switched off when inserting or ejecting the driver card into or from tachograph card reader (1). Hold the Driver (2) button for approximately 2 seconds, open the card reader slot (3) and insert or remove the driver card, then close the slot. Ejecting the card will automatically reset the drive and rest time information indicated on the multipurpose display. After inserting a driver card, the settings of the multipurpose display will automatically be applied after a few seconds.



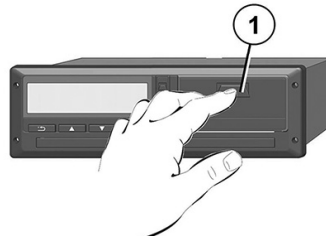
During loading of the driver card data in the tachograph, it is possible to select an activity and to drive.

Installing a roll of paper



This operation should be performed with the vehicle stationary and the ignition switched off.

Press part (1) to open the printer drawer.



DEPENDENT ON THE AMOUNT OF PRINTING CARRIED OUT, THE THERMAL PRINTING HEAD MAY BE VERY HOT AND BURN THE FINGERTIPS.

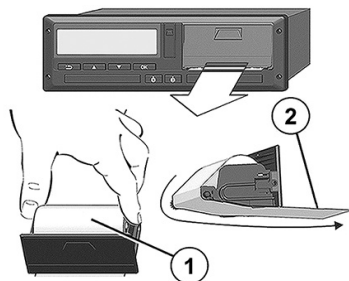
Open the printer drawer and remove the old paper roll (1).

Place the new paper roll (1) and guide it onto the roller.

Ensure that the end of the paper strip (2) is sticking out of the bottom of the drawer edge (see illustration).

Push the printer drawer back in until it locks.

The printer is ready to operate.



Only rolls of paper with the following specifications may be used:

- type approval marking "**e1 84**",
- approval marking "**e1 174**",
- RENAULT TRUCKS part number: 50 01 867 410.



ENSURE THAT THE PRINTER DRAWER REMAINS CLOSED AT ALL TIMES TO PREVENT ANY RISK OF BEING CUT BY THE PAPER CUTTING BLADE.

Instrument panel

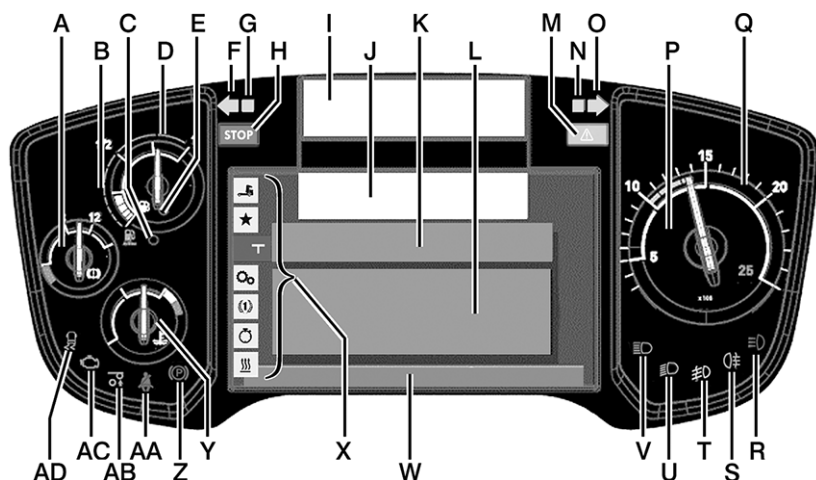
All the information required during driving is compiled in the instruments.

The central information display shows information and warning messages when necessary. In other cases, it displays the information that you choose yourself. In its top part, it shows direction arrows, STOP and SERVICE lights and the speed display (cruise control, speed limiter and anti-collision radar)

The left part comprises gauges for fuel, temperature and air pressure.

Finally, the right part holds the tachometer and the long-range headlamps, front fog lamps, rear fog lamps, low beam lamps and full beam lamps.

You will find a description of the instrument panel in the following pages, with all the warning light captions.



Depending on your vehicle's equipment

- A - Air pressure indicator
- B - AdBlue level indicator
- C - Minimum AdBlue level warning light
- D - Fuel level indicator
- E - Minimum fuel level warning light
- F* - Tractor LH direction indicator lights telltale
- G** - Trailer LH direction indicator lights warning light

- H - "STOP" warning light: stop immediately
- I - Speed display:
 - Cruise control
 - Speed limiter
 - Anti-collision radar
- J - Gearbox display:
 - Gear engaged
 - Retarder control position indicator
 - Eco Cruise Control information
- K - Multifunction information display
- L - Multifunction information display
- M - "SERVICE" warning light: go to the nearest RENAULT TRUCKS garage
- N** - Trailer RH direction indicator lights warning light
- O* - Tractor RH direction indicator lights telltale
- P - Engine speed counter
- Q - Engine operating speed zone
- R - Long range headlights warning light
- S - Fog light(s) warning light
- T - Fog driving lights warning light
- U - Dipped beam headlights warning light
- V - Main beam headlights warning light
- W - Comfort information display:
 - Clock
 - Exterior temperature indicator
 - Radio
- X - Tabs for the different pages
- Y - Engine cooling circuit temperature indicator
- Z - Parking brake warning light
- AA - Fasten seat belt warning light
- AB - Lift-up axle warning light
- AC - Engine electronic fault warning light
- AD - "ESC" operation indicator light

Operation of direction indicator lights repeater lights

*Without trailer

When the direction indicator lights or hazard warning lights control is activated, indicator (F) or (O) should flash and the audible warning should sound. If the warning light (F) or (O) does not work, one of the vehicle lamps is faulty.

**With trailer

When the direction indicator lights or hazard warning lights control is activated, indicators (F/G) or (O/N) should flash and the audible warning should sound.

If the warning light (F) or (O) does not work, one of the vehicle lamps is faulty.

If the warning light (G) or (N) does not work, one of the trailer lamps is faulty.



If the cause of the fault is not the bulbs, visit a RENAULT TRUCKS garage.

Key to warning pictograms



A text indicating the procedure to be followed or an information message is displayed below the warning pictogram.



These warning pictograms are shown on the multifunction information display.

Depending on your vehicle's equipment



- Driver's information warning light



- Driver's information warning pictogram



- Information display fault warning light



- Battery warning pictogram
- Battery charge fault warning pictogram



- Engine oil pressure "Warning" light



- Engine oil temperature "Alert" warning light



- Engine oil level "Alert" warning light



- Engine oil level information loss warning pictogram



- Vehicle electronic fault warning light



- Body builder 103 unit fault warning light



- Bodybuilder CAN bus link fault warning pictogram



- Unknown electronic box fault warning light



- Engine electronic fault warning light



- Air preheating warning lamp



- Parking brake warning light



- Minimum air pressure "Alert" warning pictogram
- Braking system or parking brake fault warning pictogram
- Tractor EBS fault warning pictogram:
 - orange warning light: System fault "Information"
 - red warning light: System fault "Warning"



- Tractor "ABS" warning light:
 - system fault warning pictogram



- ABS deactivated warning pictogram



- Tractor "ESC" warning pictogram:
 - warning pictogram flashing: system activation
 - warning light lit steadily: System fault "Warning"



- Tractor "ASR" warning pictogram:
 - warning pictogram flashing: function activation
 - warning pictogram lit constantly: system fault "Alert" or function inhibited



- Trailer "ABS" "EBS" "ESC" warning pictogram:
 - orange warning light: System fault "Information"
 - red warning light: System fault "Warning"



- Brake pad wear warning indicator



- Brakes high temperature warning light



- Air management fault warning pictogram



- Stop lights fault warning pictogram



- Reversing lights fault warning pictogram



- Headlight beam upward adjustment warning pictogram



- Headlight beam downward adjustment indicator



- Daytime running lights (DRL) warning pictogram



- Parking lights warning pictogram



- Dipped beam headlights warning light



- Main beam headlights warning light



- Fog driving lights warning light



- Fog light(s) warning light



- Direction indicator lights warning pictogram



- Windscreen de-icing - de-misting warning pictogram



- Rain sensor warning pictogram



- Parking heater warning pictogram



- Air distribution in cab warning pictogram

The arrows indicate the direction of the air flow



- Alarm clock programming warning pictogram



- Seat belt reminder warning pictogram



- Engine fast idle warning pictogram



- Engine idle speed warning pictogram



- Engine stop warning pictogram



- Engine equipment fault warning pictogram



- Fuse or relay fault warning pictogram



- Maintenance alert warning pictogram



- Water-in-fuel warning pictogram



- Fuel supply anomaly warning pictogram



- Minimum fuel level warning light



- Minimum AdBlue level warning light



- Engine cooling circuit temperature "Alert" warning lamp



- Engine coolant low level warning indicator
- Engine coolant low level sensor fault warning pictogram



- Air filter clogging warning pictogram



- Particulate filter regeneration warning pictogram



- Pollution control system fault warning pictogram



- "Euro VI" Pollution control system fault warning pictogram



- High exhaust temperature warning pictogram



- Screen wash low level warning pictogram



- Screen wash tank empty warning pictogram



- Electronic anti-theft device fault warning pictogram



- Electronic air suspension "Warning" pictogram



- Adjust suspension height in driving position "Information" warning pictogram



- Electronic air suspension "Information" pictogram



- ASR deactivation/operation warning light (rolling road test bench mode)



- Retarder warning pictogram



- Cruise control warning pictogram



- Inter-wheel differential lock in service warning pictogram



- Manual acceleration control for difficult terrain indicator light



- Cab tilt anomaly warning pictogram



- Collision risk "Alert" warning pictogram
- AEBS deactivated "Information" pictogram



- Lane Departure Warning System "Alert" warning pictogram
- Lane Departure Warning System deactivated "Information" warning pictogram



- "Optiroll" mode warning light active

Key to "gearbox" pictograms



- Move gear lever to position (D) "Information" pictogram



- Move gear lever to position (N) "Information" pictogram

Auto Integral automatic mode "Information" pictogram

MANU Permanent manual mode "Information" pictogram

(MANU) Temporary manual mode "Information" pictogram

Power Maximum vehicle mobility "Information" pictogram



- Robotized gearbox selector fault warning pictogram



- Automated manual transmission clutch wear warning pictogram



- Gearbox oil temperature "Alert" warning pictogram



- Gearbox air pressure fault warning pictogram



- Gear engaged in direction opposite to driving "Alert" warning pictogram



- Gear engaged in direction opposite to driving "Alert" warning pictogram



- Clutch wear warning indicator



- Clutch overheating warning pictogram

Key to "Tachograph" pictograms



- Tachograph fault warning pictogram

- Driving information pictogram



- Accumulated driving time indication pictogram



- Current driving time indication pictogram



- Rest time indication pictogram



- Availability time indication pictogram



- Working time indication pictogram

"Body builder" equipment information pictogram key



- Bodybuilder message pictogram



- Brakes locked on chassis pictogram



- Bodybuilder system active pictogram



- Body interior lighting pictogram



- Tipper in working position pictogram



- Crane deployed pictogram



- Tailgate open pictogram



- Stabiliser feet deployed pictogram



- Cannot start with engine stop on chassis pictogram



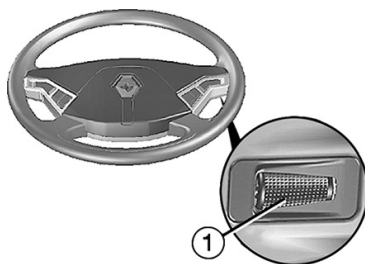
- Engine stop on chassis pictogram

Description of the display controls

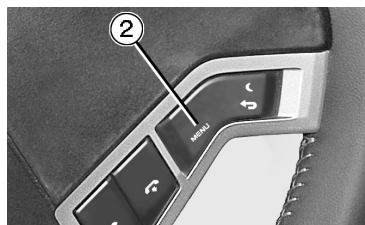
Multifunction display controls

Two control buttons are present above and below the steering wheel to let you browse through the display menus.

Turn navigation control (1) located under the steering wheel to "navigate" through the pages and menus of the multifunction information display, and press it to confirm choices.



Control (2) is used to access the configuration menus and exit the sub-pages/sub-menus that are currently open.



It is recommended to use controls (1) and (2) with the vehicle stationary and parked correctly.



When a menu is greyed out, check that all the conditions required for accessing this menu are present.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

Multifunction information display

Description

The multifunction information display is divided into 5 separate zones.

Area (1)

Information relating to speed:

- gear indicator,
- anti-collision system information,
- cruise control information,

Area (2)

- information relating to use of the gearbox,

Area (3)

Information relating to the start-up procedure:

- total mileage,
- partial mileage,
- information relating to on-board computer,
- information relating to tachograph.

Area (4)

This is the main display zone; the different menus, information complementary to driving, alert and information pictograms are displayed here.

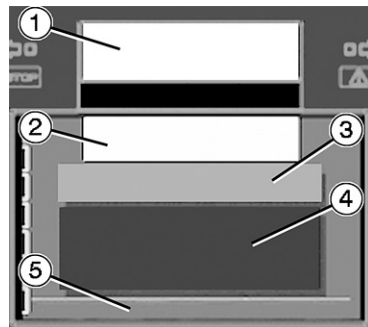
When the ignition is switched on:

- the warning lights relating to the self-test are displayed for a few seconds.

Area (5)

Information relating to comfort:

- exterior temperature indicator,
- radio functions indicator,
- telephone functions indicator,
- time display.



Driver's interface

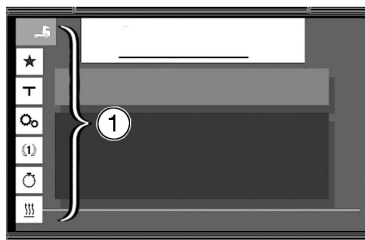
driver interfaces

To exchange information with you simply and relevantly, the display is divided into different pages.

These interfaces appear on the left of the display (1).

You will find the following menus there:

- Home page and fault display
- Favourites page,
- Tachograph page,
- Equipment page
- Economy driving page
- Alarm clock and timer page
- Parking heater page.



Home page and fault display

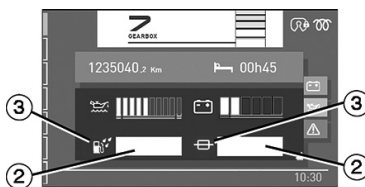
Welcome

When the ignition is switched on, a home page is displayed on the multifunction information display and remains present for 30 seconds after the vehicle has been started.

A message (2) and its associated warning symbol (3) indicate that there is a fault (fuse to be replaced, parking heater maintenance required, etc.).

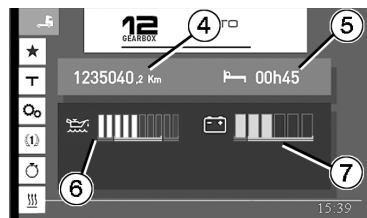
For example, this illustration shows the presence of water in the fuel and a faulty fuse.

If several faults are present, you must first resolve the first two faults in order to see the next ones displayed.



The home page shows:

- (4): the total number of kilometres covered by the vehicle.
- (5): time spent in the activity selected.
- (6): the engine oil level sensor.
- (7): the accumulator battery charge level as a function of external temperature.



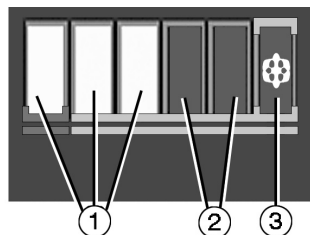
After 30 seconds, faults (1) remain on the main screen of the multifunction information display.



Battery charge fault warning pictogram

- (1): Current charge level.
- (2): Recharging capacity.
- (3): Momentary loss of capacity in low temperatures.

For more information refer to the **Accumulator battery management** section.



Following replacement of the accumulator batteries, the charge indicator will be unavailable for up to 1 day.

Display of fault(s)

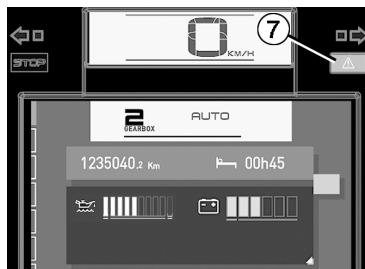
In the event of one or more faults, one or more warning pictogram(s) (6) is/are displayed on the instrument panel. In this case, the warning pictogram (STOP or SERVICE) lights up simultaneously to indicate how serious the fault or faults are.



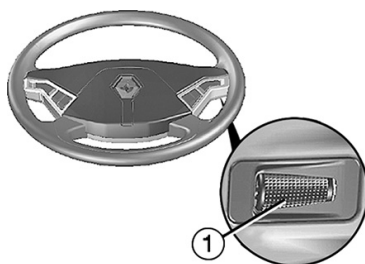
There are two possibilities:

1st scenario

- If orange SERVICE warning pictogram (7) is displayed: you must identify the problem if possible and have it resolved, or make your way to the nearest RENAULT TRUCKS garage.



For more information on the service fault, confirm using button (1).



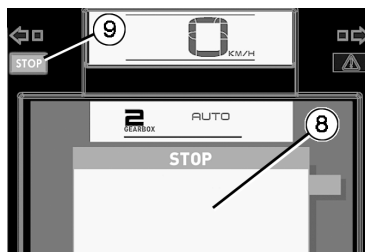
A text indicating the procedure to be followed or an additional information message (8) is displayed.



2nd scenario

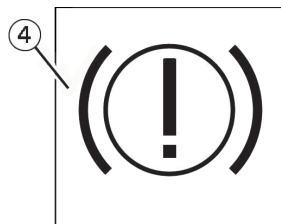
- If red STOP warning pictogram (9) illuminates: you must stop the vehicle and contact the nearest RENAULT TRUCKS garage.

A text indicating the procedure to be followed or an additional information message (8) is displayed.



Air pressure warning pictogram:

- If pictogram (4) is displayed, start the vehicle to pressurise the air circuit. If this is not the case, there is a braking system fault.
- If numerous faults are present (characterised by the STOP and SERVICE messages), only STOP warning pictogram (9) is displayed.



Favourites page

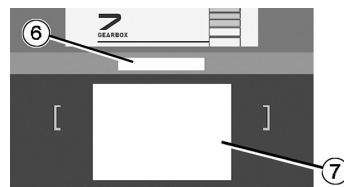
In the drop-down menu, select the favourites page.

The page is divided into 4 separate zones.

Turn the navigation control placed under the steering wheel to select the zone (2), (3), (4) or (5), confirm the entry in the menu by pressing it.



The **favourites** selection menu (6) is displayed. Select your desired favourite (7) with the navigation control under the steering wheel. Confirm the entry in the menu by pressing it.

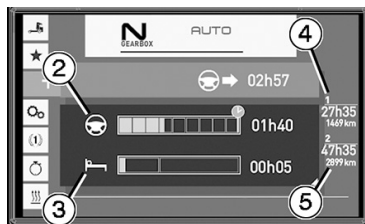


Within the page indicating the odometer, fuel consumption and average speed, you have the option to reset these to zero. To do this, keep the steering wheel-mounted control pressed down until the values reset.

Tachograph page

By navigating with the steering wheel-mounted navigation control, you can access the tachograph information:

- (2) - Driving time already elapsed.
- (3) - Break time.
- (4): Driving time and kilometres covered in 1 week.
- (5): Driving time and kilometres covered in 2 weeks.



If driving with a crew, if both cards are inserted into the tachograph, the mileage displayed (4) and (5) represent the crew's total, unlike the driving time which is still associated with the card of the driver.

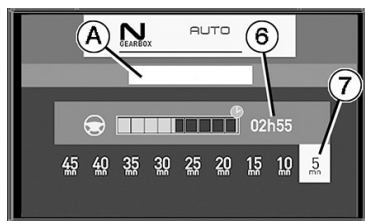
By default, an alert sounds when the driving time exceeds 4 hours and 30 minutes.

A first pre-alert sounds when the driving time exceeds 4 hours and 15 minutes.

You may configure an additional alert to precede the pre-alert:

Press the steering wheel-mounted navigation control: the sub-page concerning **the rest-pause warning** (QA) is displayed.

- (6) - Driving time since the last break.



- (7) - Additional alert.

Select an additional alert (7) for between 5 and 45 minutes.

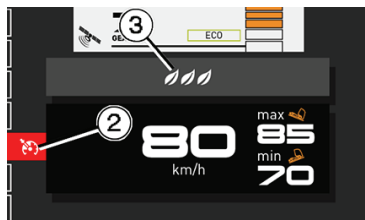
Economic driving

By navigating with the steering wheel-mounted navigation control, you can access the economic driving mode choice page:

In the drop-down menu, select the economic driving page (2).

The symbols (3) show the fuel economy level.

For further information, refer to the Eco Cruise Control section.



Alarm and timer

By navigating with the steering wheel-mounted control, you can access the alarm and timer adjustment:

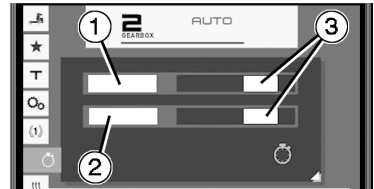
In the drop-down menu, select the alarm and timer page.

Alarm (1) is functional when stationary (3).

Timer (2) is functional when stationary (3).

Press the steering wheel-mounted navigation control to confirm your choices.

Select the function required.



Alarm

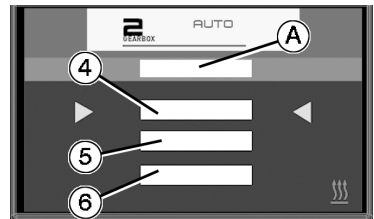
Menu (A) for the **alarm** is displayed.

(4): stop alarm.

(5): activate alarm.

(6): adjustments.

Turn the steering wheel-mounted control to navigate in the sub-section. Press it to confirm your choices.



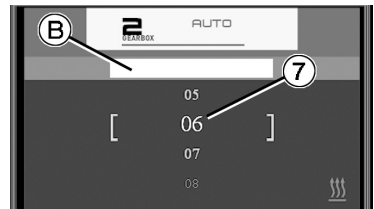
Activating the alarm

The **start time** selection page (B) is displayed.

Turn the steering wheel-mounted control to navigate in the sub-section.

Select the hour required (7).

Press the steering wheel-mounted navigation control to confirm your choices.

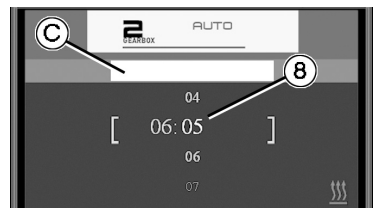


The **minutes** selection page (C) is displayed.

Turn the steering wheel-mounted control to navigate in the sub-section.

Select the required number of minutes (8).

Press the steering wheel-mounted navigation control to confirm your choices.



Settings

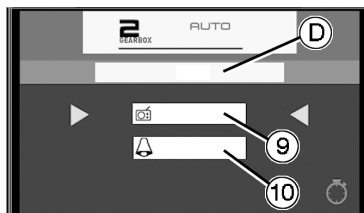
The **alarm** tone selection page (D) is displayed.

(9): selecting the radio.

(10): selecting the ring tone.

Turn the steering wheel-mounted control to navigate in the sub-section.

Press the steering wheel-mounted navigation control to confirm your choices.



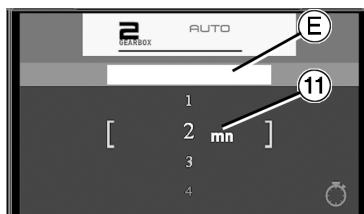
Timer

The **timer duration** selection page (E) is displayed.

Turn the steering wheel-mounted control to navigate in the sub-section.

Select the required number of minutes (11) between 1 and 90 minutes.

Press the steering wheel-mounted navigation control to confirm your choices.



Once the programming is complete, the information appears on the information display:

(12): alarm start time.

(13): timer duration.



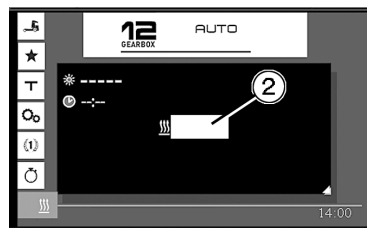
Parking heater page

Navigating with the steering wheel-mounted control, you can access the parking heater page:

In the drop-down menu, select the parking heater page.

The parking heater is **off** (2).

Press the steering wheel-mounted navigation control.



The **parking heater** sub-page (A) is displayed.

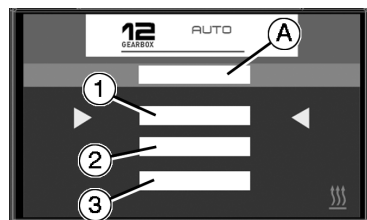
(1) - Switch off the parking heater.

(2) - Activate the parking heater.

(3) - Adjustments.

Turn the steering wheel-mounted control to navigate in the sub-section.

Press the steering wheel-mounted navigation control to confirm your choices.



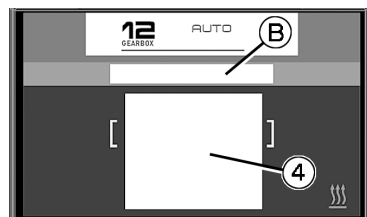
Activating the parking heater

The **start date** selection page (B) is displayed.

Turn the steering wheel-mounted control to navigate in the sub-section.

Select the day required (4).

Press the steering wheel-mounted navigation control to confirm your choices.



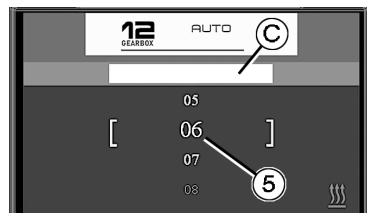
Pressing button (3) on the remote control allows you to switch off the master power supply or to enter the vehicle's low consumption mode and also to switch off the refrigerator and operation of the parking heater or to program it.

The **start time** selection page (C) is displayed.

Turn the steering wheel-mounted control to navigate in the sub-section.

Select the hour required (5).

Press the steering wheel-mounted navigation control to confirm your choices.

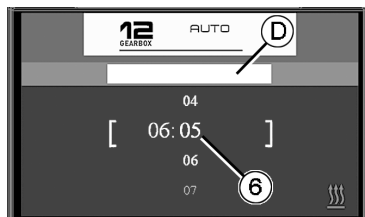


The **minutes** selection page (D) is displayed.

Turn the steering wheel-mounted control to navigate in the sub-section.

Select the required number of minutes (6) between 1 and 59 minutes.

Press the steering wheel-mounted navigation control to confirm your choices.



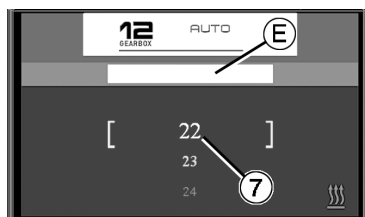
Adjustment

The **temperature** selection page (E) is displayed.

Turn the steering wheel-mounted control to navigate in the sub-section.

Select the temperature required (7) between 16°C and 26°C.

Press the steering wheel-mounted navigation control to confirm your choices.

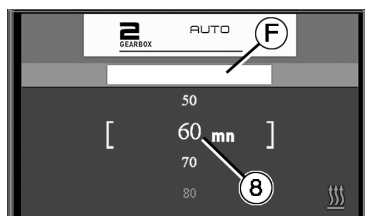


The **operating period** selection page (F) is displayed.

Turn the steering wheel-mounted control to navigate in the sub-section.

Select the operating time required (8) between 10 and 120 minutes.

Press the steering wheel-mounted navigation control to confirm your choices.



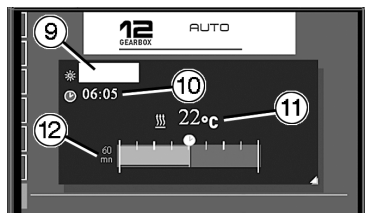
Once the programming is complete, the information appears on the information display:

(9): start date.

(10): start time.

(11): temperature.

(12): operating duration.

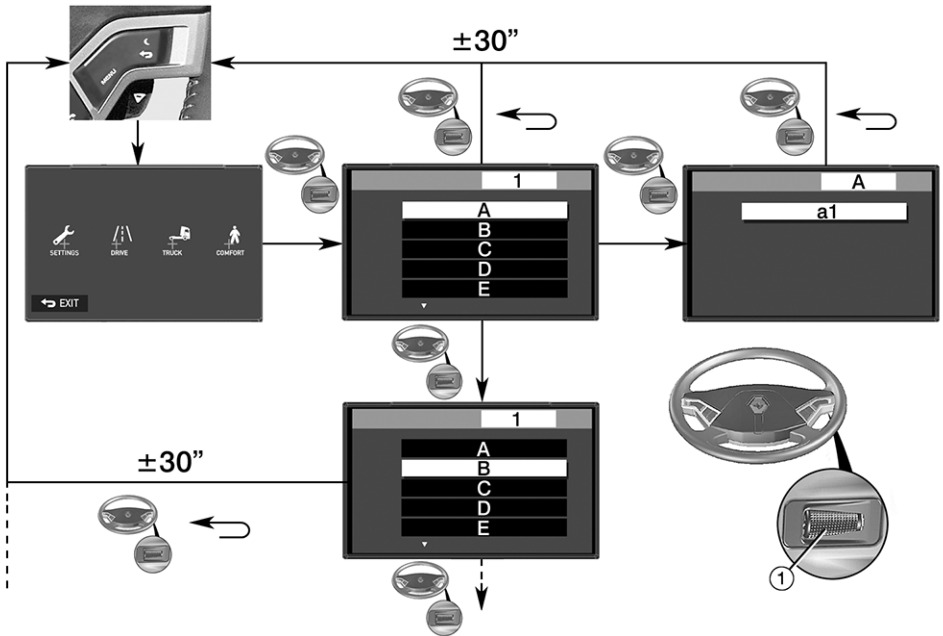


Description of topics

The vehicle themes

Four themes can be set:

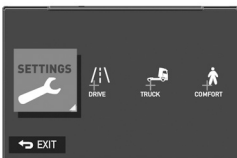
- Adjustment
- Drive
- Vehicle
- Comfort



Choose the desired theme and navigate the menus by rolling the thumbwheel (1).

Confirm your choice by pressing the thumbwheel (1).

Adjustments



A - Brightness adjustment

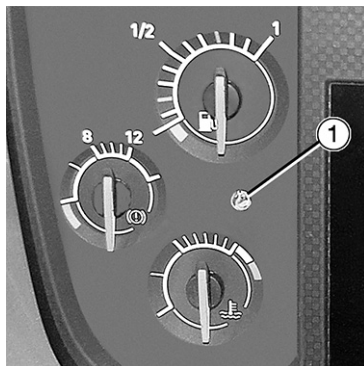


This setting may only be made with the lights lit.

a1 - This function adjusts the brightness of the instrument panel and switches.



When the lights are lit, the brightness of the instrument panel lighting varies according to the lighting level detected inside the cab by cell (1).



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

B - Night mode setting

b1 - Standard level

This level deactivates the lighting of the multifunction information display, and reduces the backlighting of the gauges and speedometer.

b2 - Extended level

In addition to the standard level, this level enables lighting of the controls and the offset information display to be deactivated.

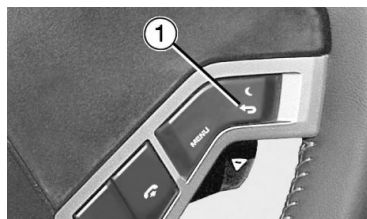


If a message or warning is displayed, the information display brightness reverts automatically to the initial setting.

Pressing and holding key (1) activates night mode.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly **(without confirmation)** to the driver's favourite information.*



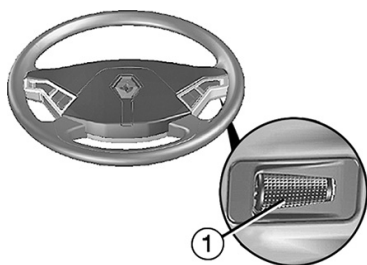
C - Sounds

c1 - Volume level

This function adjusts the volume level.

Set the volume required with the thumb wheel (1).

Confirm the choice by a press on the thumb wheel (1).



D - Languages

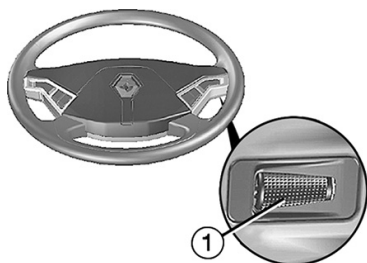
Choose the language via the thumb wheel (1).

Confirm the choice by a press on the thumb wheel (1).

You can choose between three different languages.



The language is detected automatically depending on the nationality declared on the driver card.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly **(without confirmation)** to the driver's favourite information.*

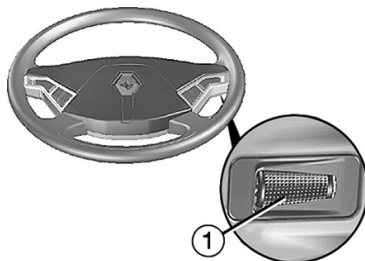
E - Time and date

This function is used to configure:

- Time
- Date
- Date format



The format selected for the date by the driver will be used wherever the date is displayed.



Date adjustment

Choose the day, month and year via the thumb wheel (1).

Confirm the choice by a press on the thumb wheel (1).

Setting the time

This function is used to set the time for the instrument panel and the digital tachograph.

Set the hour using the thumbwheel (1).

Confirm the adjustment by a press on the thumb wheel (1).

Set the minutes (in 30-minute increments) using the thumbwheel (1).

Confirm the adjustment by a press on the thumb wheel (1).

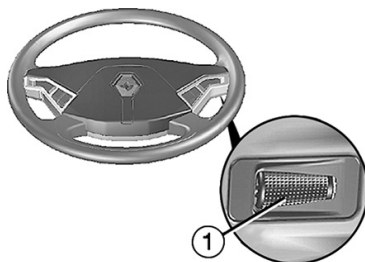
If the vehicle is fitted with an analogue tachograph or no tachograph, the adjustment of local time will be by steps of 1 minute.

F - Units

This theme allows you to choose the unit displayed on the instrument panel: Km/h or Mph.

Choose the unit required via the thumb wheel (1).

Confirm by a press on the thumb wheel (1).



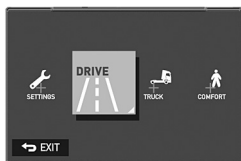


If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.

G - Eco Cruise Control

This menu is used to activate or deactivate the **"controlled free wheel"** system without using the cruise control.

Driving



A - On-board computer

a1 - Vehicle data

This menu displays the following items, cumulative from the beginning of the vehicle's life.



These values cannot be reset to zero.

- a1-1 - Fuel consumption, values calculated while the vehicle is being driven
- a1-2 - Fuel consumption, values calculated while the vehicle is stationary
- a1-3 - AdBlue consumption, values calculated while the vehicle is being driven
- a1-4 - Total engine running hours

a2 - Route data

This menu displays the following items, cumulative since the last reset.

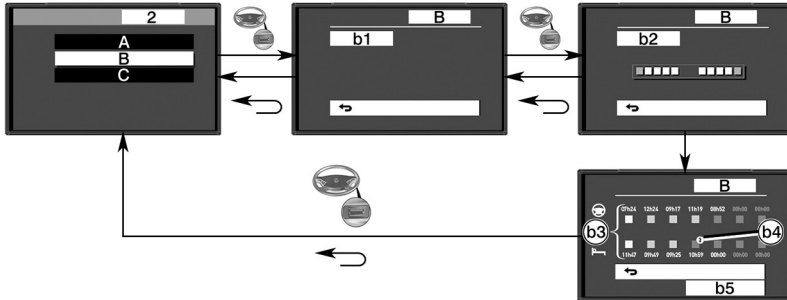
- a2-1 - Fuel consumption, values calculated with the vehicle being driven since the last zero reset
- a2-2 - Fuel consumption, values calculated with the vehicle stationary since the last zero reset
- a2-3 - AdBlue consumption, values calculated with the vehicle being driven since the last zero reset
- a2-4 - Total mileage covered since the last zero reset

- a2-5 - Zero reset of all values



If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.

B - Weekly time



b1 - Driver card not present in tachograph.

Insert driver card in tachograph.

b2 - Data retrieval in progress.

b3 - Data display over a period of 7 days.



The current driving period time and past driving period times are highlighted.

The time for future periods is set at 00:00 and back-lit.

- When the driving time is less than 9 hours, the square representing the period is grey.
- When the driving time is greater than 9 hours, the square representing the period is orange.
- The square representing the current driving time is not in colour.
- For a break greater than or equal to 3 hours and less than 9 hours in the driving time, supplementary information b4 is displayed in the menu.



This information could be added for each driving period.

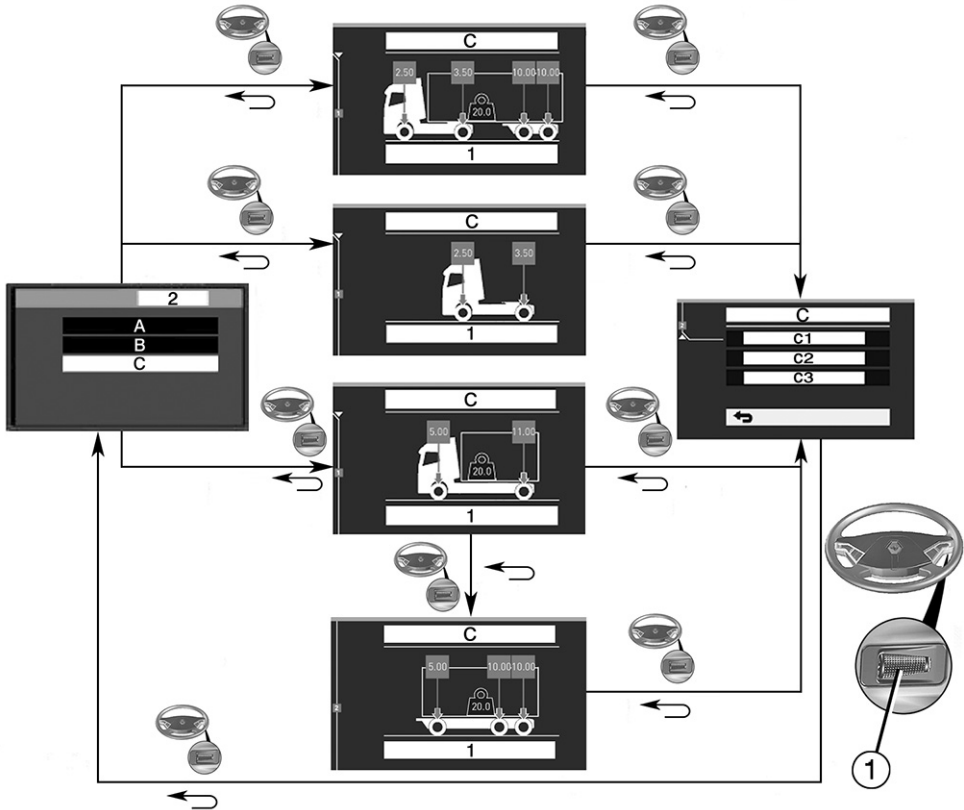
Unknown periods are considered as rest periods.

When an unknown period is detected in the calculation of one of the rest periods, a message b5 appears on the information display.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

C - Load per axle



The information relating to the load per axle may only be displayed when the vehicle is stationary.

Confirm this information to access the load per axle menu.

(1) - Total weight of the vehicle combination (in tonnes).

Confirming menu C displays the information relating to the load per axle of your tractor-trailer combination.

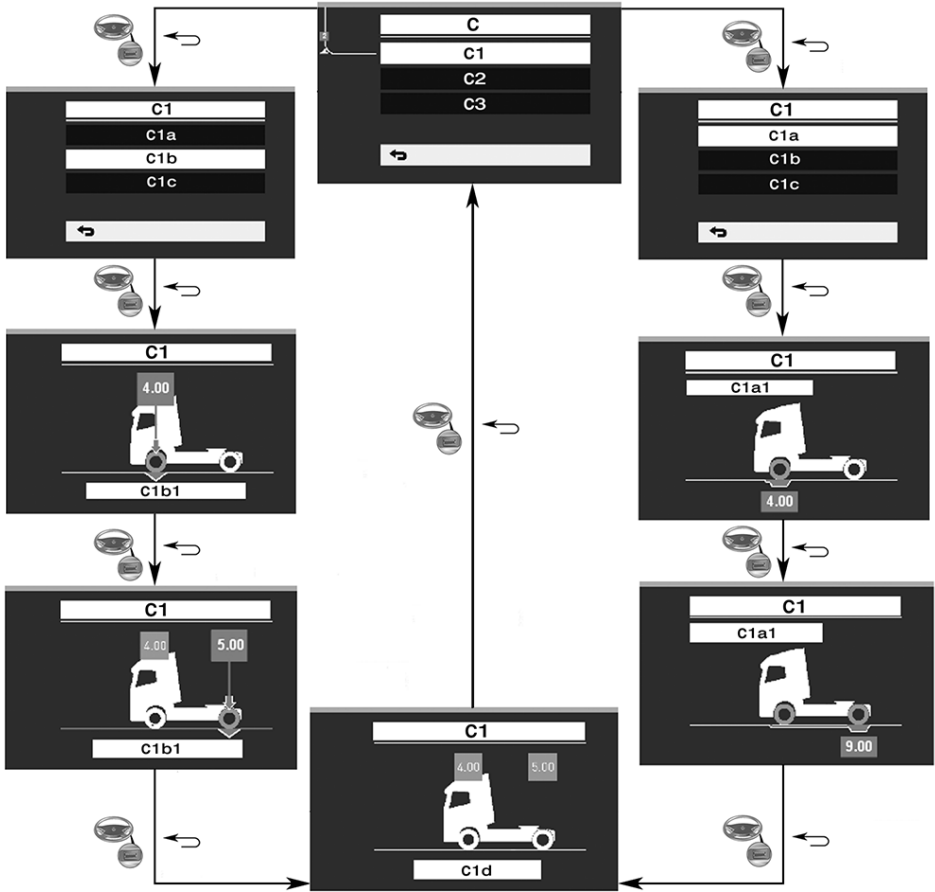


This operation is performed in 2 stages:

- 1st stage unladen;
- 2nd stage laden.

C1 - Rigid unit calibration

This menu updates the calibration sensors.



Select the required balance scale mode:

C1a - Weighs and totals the weight of the different axes.

- C1a1 - The information display indicates the axle(s) to be placed on the scales.

C1b - Weighs a single axle at a time.

- C1b1 - The information display indicates the axle to be placed on the scales.

C1c - Date of last calibration.

C1d - The information display indicates that the vehicle is calibrated.

Multifunction information display

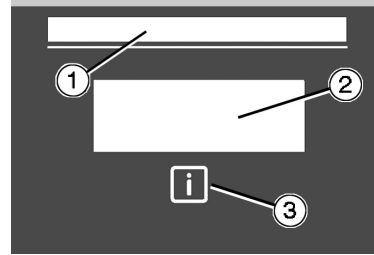


It is recommended to calibrate your tractor-trailer combination at least once per year.

When you begin calibrating the load (1), an error message (2) may be displayed along with corresponding pictogram (3).

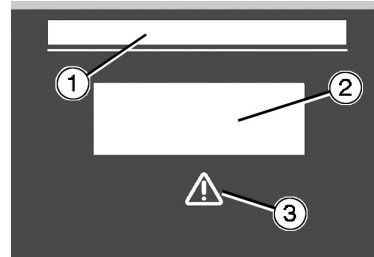


*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driving screen.*

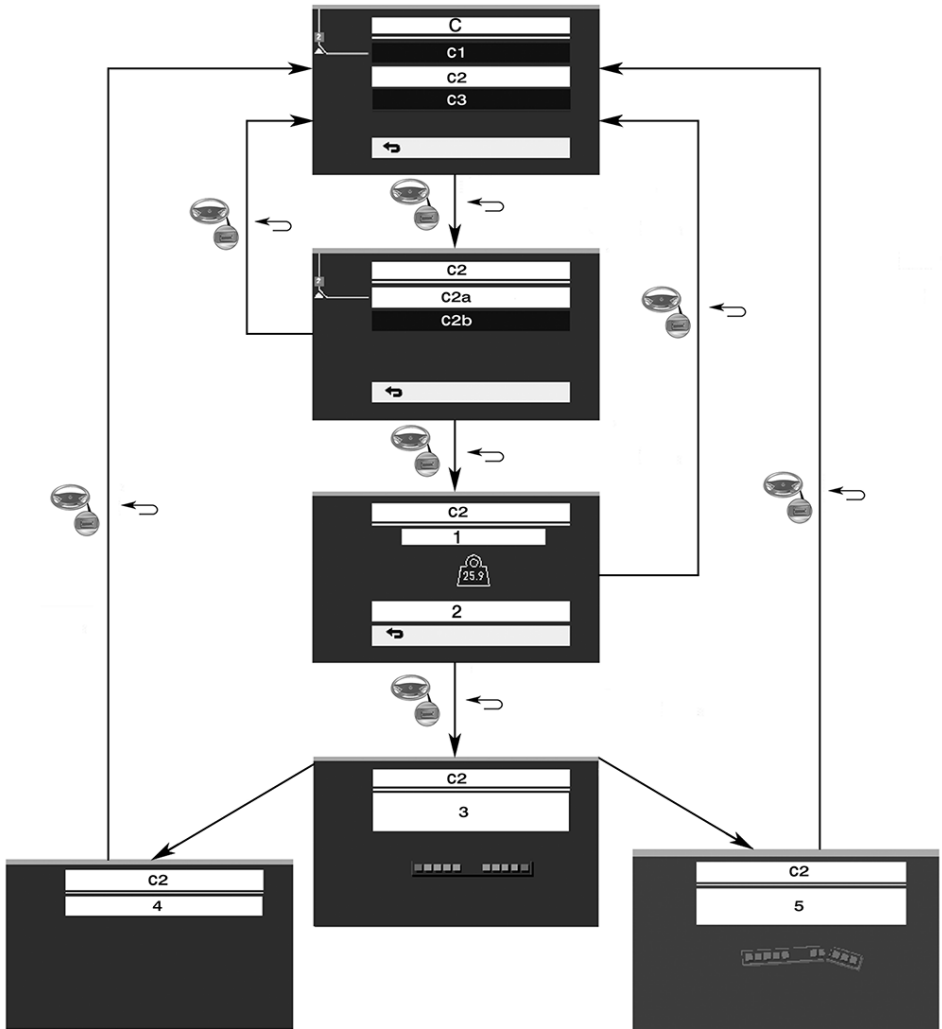


When you begin calibrating the load (1), an error message (2) may be displayed, along with the corresponding pictogram (3).

It will not be possible to calibrate the vehicle until the fault has been cleared.



C2 - Clearing the load carried by the tractor-trailer combination



This menu is used to clear the load weight carried by the tractor-trailer combination.

C2a - Clearing the load carried by the tractor or rigid.

C2b - Clearing the load carried by the trailer.

(1) - The information display prompts you to confirm whether you really wish to clear the carried load.

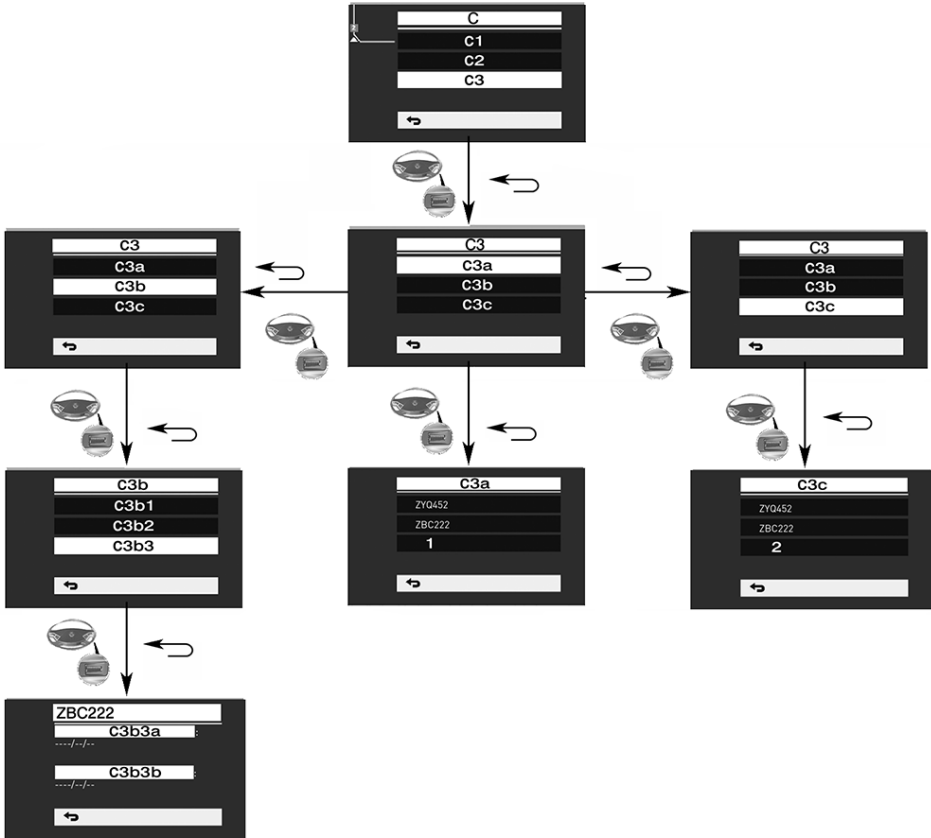
(2) - Select **yes**.

(3) - The information display indicates that the load carried is about to be deleted and asks you to wait.

(4) - The information display indicates that the load being carried has been cleared.

(5) - The information display indicates that deletion of the carried load has failed.

C3 - Trailer management



This menu is used to select and calibrate the trailer or to manage the trailer list.

C3a - Selects the current trailer.

C3b - Calibrates the trailer.

- C3b1 - Weighs and totals the weight of the different axes on the balance.
- C3b2 - Weighs a single axle at a time on the balance.

- C3b3 - Date of last calibration.
 - C3b3a - Date of last calibration with a heavy load.
 - C3b3b - Date of last calibration with a light load.

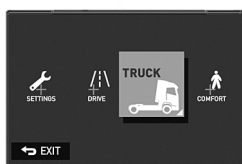
C3c - Manages the list of trailers.

- (1) - Inserts a new trailer.
- (2) - Renames a trailer or deletes it.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly **(without confirmation)** to the driving screen.*

Vehicle



A - Maintenance

In this menu, you will have access to the information on the maintenance of:

- a1 - Engine drive belt(s)
- a2 - Air filter
- a3 - Engine coolant
- a4 - APM
- a5 - Gearbox oil
- a6 - Engine oil
- a7 - Brake linings
- a8 - Last brake change
- a9 - Clutch
- a10 - Alternator brushes
- a11 - Starter motor brushes
- a12 - Steering oil
- a13 - Mandatory inspection
- a14 - Tachograph check



When replacing accumulator batteries with others that are different to the original equipment, you must select the "other" option in the accumulator battery type list, which will partially deactivate the functions associated with accumulator battery management and not display any incorrect information.

B - Water-in-fuel drain

Conditions to be met to drain water from the primary fuel filter:

- Water detected in the primary fuel filter
- Vehicle stationary
- Engine switched off
- Ignition on
- Parking brake applied

When all the conditions are met, select "yes".

A screen shows you the progress of the operation to drain water from the fuel.



To avoid contaminating the ground, you should position a tray underneath the vehicle to recover the fluid and drain in an appropriate location; flat ground, well-ventilated with a means for collecting and processing the fuel-contaminated water.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

C - Diagnostics

In the diagnostic menu, you will be able to access the following options:

- Immobilizer, which that give you the dynamic code to send to the techline, and where you can then enter the code sent by the techline.

The window will then inform you whether the PIN is valid.

The menu will be automatically closed after a delay of 3 seconds.

- Computer references

Gives you information on the computers and software versions on board.

- Fault(s)

List the fault codes present.

D - Downloading software updates

When the message "Update software" is shown in the instrument display, new software is available to update the truck.

The estimated time (1 to 60 minutes) required to update the truck with the new software is shown before the update starts.

During the update, the truck may not be used in any way and many functions are disabled. Therefore, plan the update for an appropriate time.

You can start the update when the message appears or for a later time. If you want to update later, press the back button on the steering wheel to close the message.



The truck must not be started, moved or used in any way during the update. The remote control must be on board and the vehicle must be in contact mode.

Launching the update

Park the truck on level ground.

Switch off the engine.

Put the vehicle in contact mode and leave it in this position throughout the update.

If the message still appears on the display, select "Continue". If the message has been closed, go to the "Maintenance" menu on the instrument panel display and select "Software update".

Follow the on-screen instructions.

At the end of the download, the message "Update complete. The vehicle is now ready for use. " is displayed.



If the message "Update failed. Truck is not drivable due to safety precautions." is shown or the display remains black. An unusual critical fault has occurred. Call Uptime service to get support. Telephone number +800 777 500 00 (free of charge).

E - Information display test

The self-test checks the operation of the instrument panel instruments.

F - Engine idle adjustment

Requisite conditions for use:

- vehicle stationary.
- engine at idling speed.

- - accelerator pedal released,
- parking brake applied,
- brake pedal depressed during adjustment.

In this menu, you can:

- reduce the idling speed,
- increase the idling speed,
- confirm the setting.



In the event of adjusting the idle speed too quickly, it will not be possible to confirm it.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

G - Heater maintenance

You can activate or deactivate the parking heater maintenance here.

A message on the information display will tell you if it is activated or not.



*RENAULT TRUCKS authorizes the use of fuel incorporating up to 30% VOME (Vegetable Oil Methyl Ester compliant with standard EN 14214), **maximum**, for all Euro VI and earlier vehicles in strict compliance with the recommendations described below:*

- *operate the parking heater regularly throughout the year, or for approximately 20 minutes every month,*
- *in order to ensure smooth operation and the warranty of the parking heater, it is necessary to have some parking heater parts checked and, if necessary, replaced by a RENAULT TRUCKS authorized parking heater garage.*



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

H - Dynamometer mode

- h1 - Activated
- h2 - Deactivated

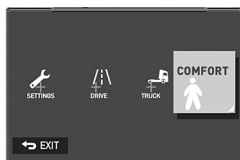


When a menu is greyed out, check that all the conditions required for accessing this menu are present.



If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.

Comfort



A - Audio

- a1 - AF (Off, regional or local)
- a2 - AM (activated or deactivated)
- a3 - Auxiliary (activated or deactivated)
- a4 - Tuner (step-by-step, or next station)
- a5 - Automatic volume adjustment (from off to maximum)
- a6 - Automatic loudness (off or on)
- a7 - Bunk adjustment (off or on)

B - Telephone

- b1 - Bluetooth (activate or deactivate)
- b2 - Telephone selection
- b3 - Add a telephone
- b4 - Remove a telephone or all telephones

C - Ipod

- c1 - Track
- c2 - Album
- c3 - Artist
- c4 - Genre
- c5 - Playlist
- c6 - Audio book
- c7 - Podcasts

D - Rain sensor

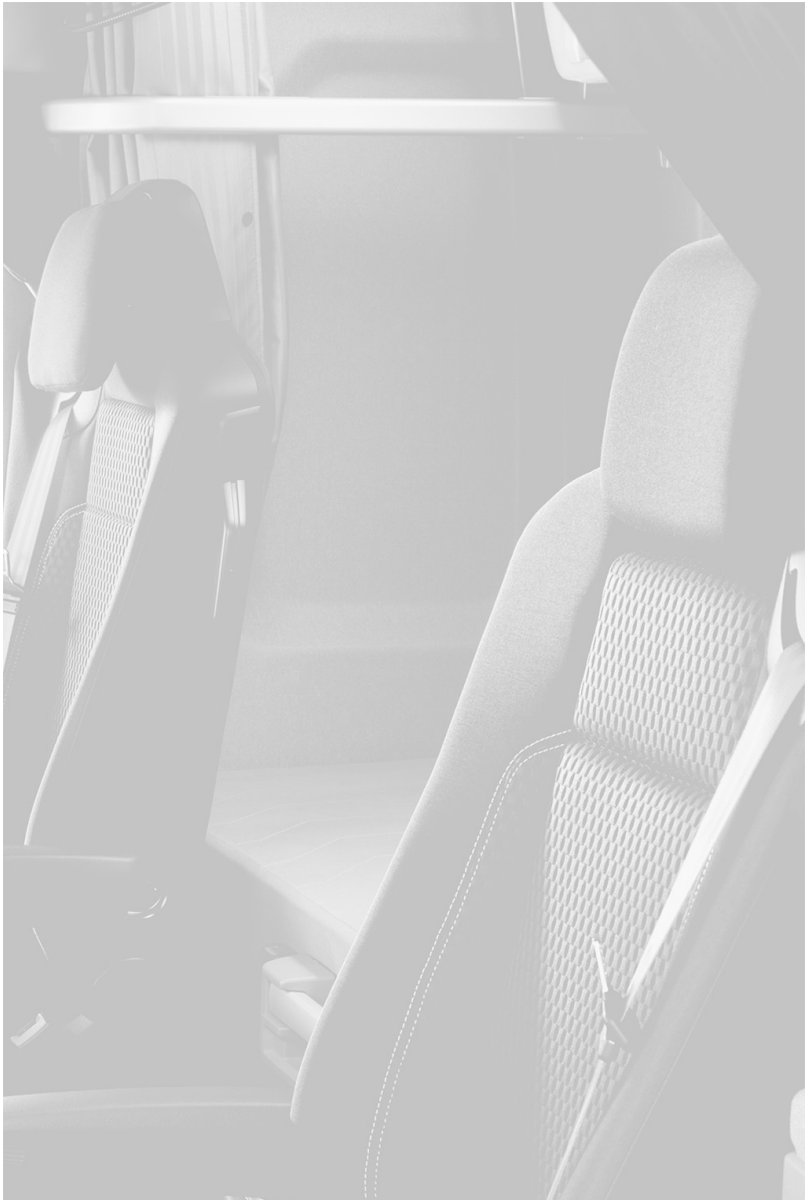
- d1 - Activated
- d2 -Deactivated



When a menu is greyed out, check that all the conditions required for accessing this menu are present.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*



Living

Living

Electrical power outlet

Power outlets (24V and 12V) are available in the instrument panel and in the rear section of the cab. These are intended for optional equipment.

There is a power outlet in the storage compartment at the foot of the bed.



Sockets located in bunk compartment



It is strictly prohibited to store flammable materials inside the cab.



Electric windows

The electric window controls allow you to raise and lower the windows by just pressing a button. From the driver's seat, you can control your side and the passenger side.

Electric window controls

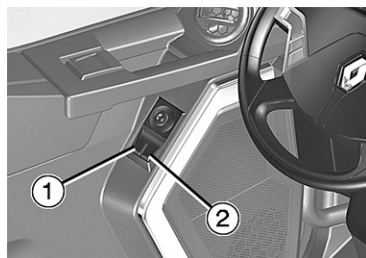
Driver's side

- (1) - Left side window control.
- (2) - Right-hand side window control.

Use of controls

To lower: press on the front and hold control (1) in the intermediate position (between the resistance point and the released position); the window lowers for as long the button is held.

To raise: pull on the front and hold control (1) in the intermediate position (between the released position and the resistance point); the window rises for as long as the button is held.



Automatic operation



Driver's side only.

To lower or raise the driver or passenger window automatically, press or lift control (1) or (2) then release it.

Any action on control (1) or (2) while a window is going up or down automatically will stop its movement.

Passenger side

- (1) - Right-hand side window control.

Use of controls:

To lower: press on the front of control (1) until the hard spot; the window lowers as long as the button is being held.



To raise: pull on the front of control (1) until the hard spot; the window rises as long as the button is being held.

Bunk remote control unit

Driver's side

Lowering: press control (2); the window is lowered as long as the button is held down.

Lift: press control (1); the window rises as long as the button is held down.

Passenger side

Lowering: press control (4); the window is lowered as long as the button is held down.

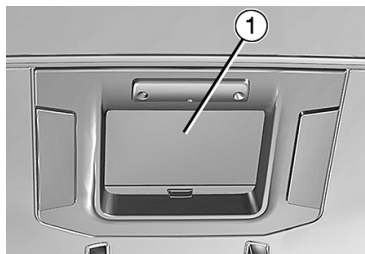
Lift: press control (3); the window rises as long as the button is held down.



Roof ventilation hatch

The cab is fitted with a roof hatch intended for ventilation and to give light.

Use of ventilation hatch (1) is controlled by a two-position control.



Opening

Press on side (1) of the control until obtaining the required opening.

Closing

Press on side (2) of the control until it closes completely.

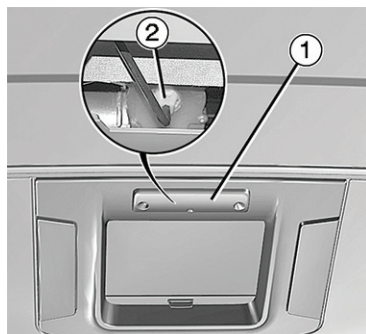


Before leaving your vehicle, as a precaution, ensure that the roof vent is closed properly.

In the event of an incident, it is possible to operate the roof vent manually.

Remove cover (1) to access the emergency control.

Place a 5 mm hexagon key into opening (2). Insert the key fully to declutch the motor and rotate it to operate the roof ventilation hatch.



Insect screen

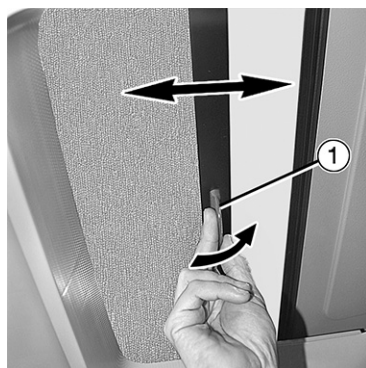
For your comfort, the roof vent is fitted with an insect screen.

Closing

To close the insect screen, pull lever (1) on the front until it locks.

Opening

To open the insect screen, turn lever (1) upwards to unlock it and hold it there until the insect screen has opened completely.





To avoid damage to the insect screen when opening it, do not let go of the lever (1).

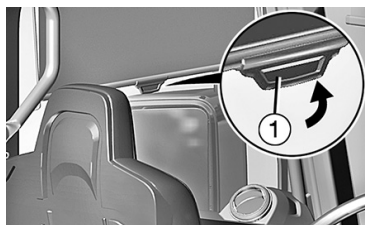
Sun blinds

The sun blind protects you from dazzling daylight. When used correctly, they help to improve road safety.

Side sun visors

To lower the sun visor, pull lever (1) to the position required.

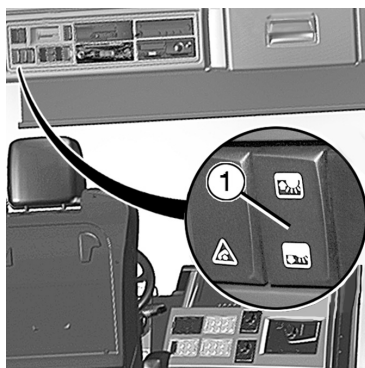
To raise the sun visor again, rotate lever (1) and hold it until the position required is obtained.



Front sun visor

To lower: press on the bottom of control (1).

To raise: press on the top of control (1).



Front sun visor extension

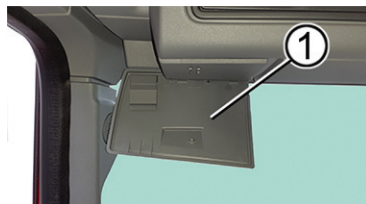
Press on sun visor extension piece (1) to unlock it.



Do not pull on flap (1) to open it, simply press on the raised area. It is a "push-push" system.



To close sun visor extension piece (1), lift it until it unlocks.



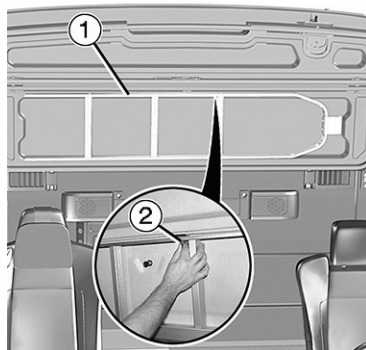
Bunks

The truck is fitted with a bed for rest and sleep. The sleeping area is spacious and the bed has a mattress which is known to be one of the most comfortable on the market. You can obtain a large storage space by folding back the bed. The equipment also includes a safety net.

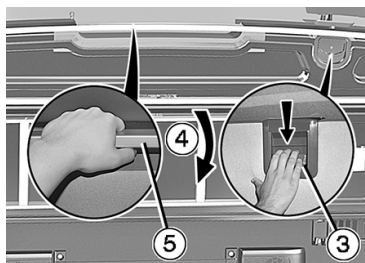
Upper bunk

To use the bunk, move the seats forwards.

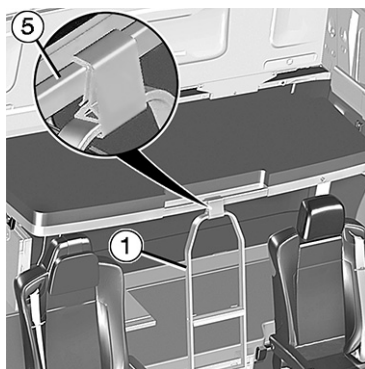
Press button (2) to release upper bunk access ladder (1).



Lower release control (3) to release bunk (4) and lower it using handle (5).



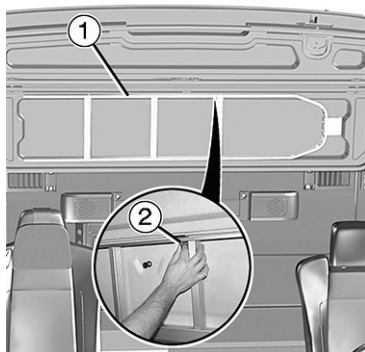
Hook ladder (1) onto upper bunk bar (5).



Store upper bunk access ladder (1) in its location.

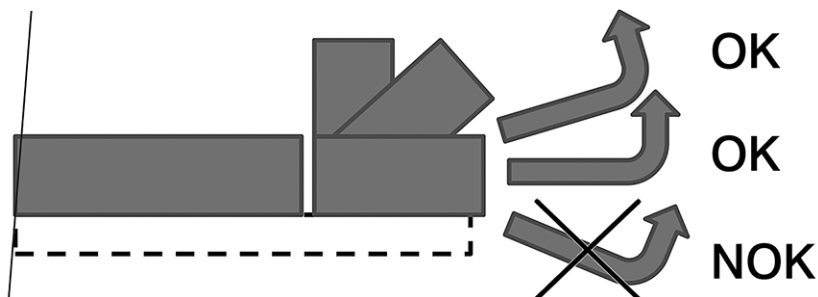
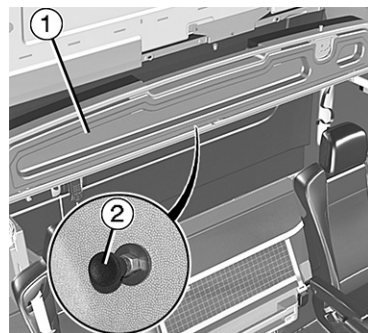


Push ladder (1) until button (2) locks.



Modular upper bunk

The upper bunk can be used as a storage space; in this case, you absolutely must lift front section (1) by unlocking it using control (2).



After unlocking, you should pull the front part of the bunk horizontally or slightly raised.

The front part of the bunk may appear to be stuck if it is pulled downwards.

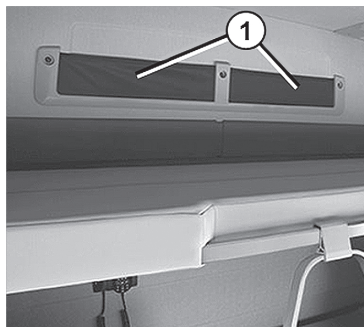
To lower front section (1), unlock it using control (2).



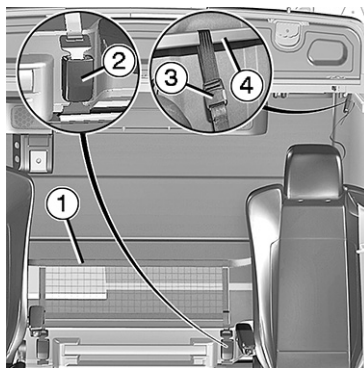
When the upper bunk is used as storage, check the locking of the front part (1).

Upper bunk storage areas

The upper bunk has storage compartments (1).

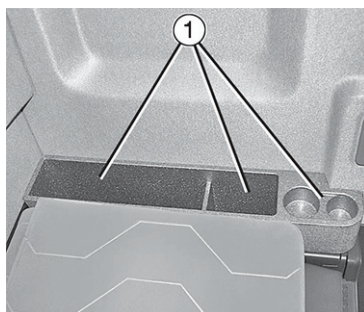


The lower bunk can be used as a storage space; in this case you absolutely must use the retaining net (1). Attach restraining net (1) using clips (2) and straps (3) around bars (4).



Lower bunk storage areas

The lower bunk has storage compartments (1).

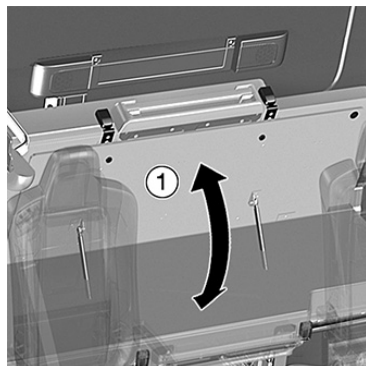


Storage compartment(s)

The truck is fitted with large and ingenious storage spaces in the cab.

Under-bunk storages

Raise lower bunk (1) to have access to storage lockers (3) and (4).

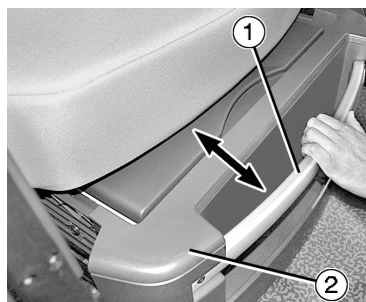


Storage compartment (2)

Unlocking

Move your hand behind handle (1) of refrigerator (2); an electric contact unlocks the drawer; pull refrigerator (2) forwards.

There are two possible opening positions. To release the retainer and open the compartment fully, unlock the ignition a second time by touching the handle (1) again.



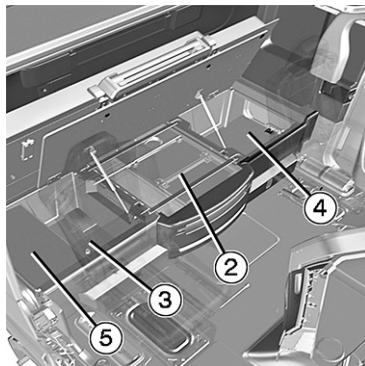
Closing

To close the storage compartment again, place your hand behind handle (1); an electrical contact unlocks the drawer.

Push storage compartment (2) until the lock engages automatically.



Do not place a load greater than 3 kg on drop-leaf table (5) of storage compartment (3).



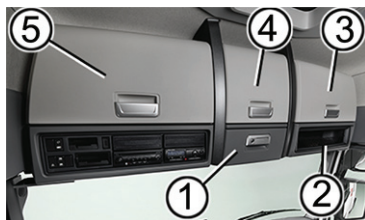
Upper header shelf storages

(1) - (3) - (4) - (5) - Storage lockers.

(2) - Shelves.

To open, pull on the door handle.

To close, push the door until the lock engages automatically.



Avoid storing articles that are too heavy which could fall and cause injury or damage.

Maximum load supported by each storage area in the overhead ledge:

(1) - 1.8 kg.

(2) - 1.8 kg.

(3) - (5) - 11.8 kg each side.

(4) - 8.4 kg.

If necessary, empty the header shelf storage before tilting the cab.

Sun visor extension with card-holder function

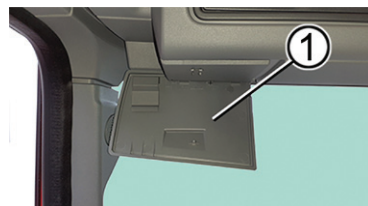
To access the card holder, there are two solutions.
Press on flap (1) to access card holder (2).



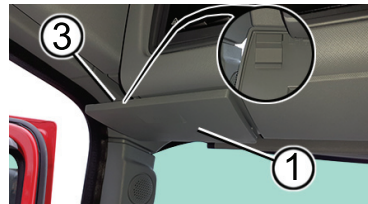
Do not pull on flap (1) to open it, simply press on the raised area. It is a "push-push" system.



To close flap (1), lift it until it fastens.



Access card holder (2) via gap (3) in the upper header shelf storage.

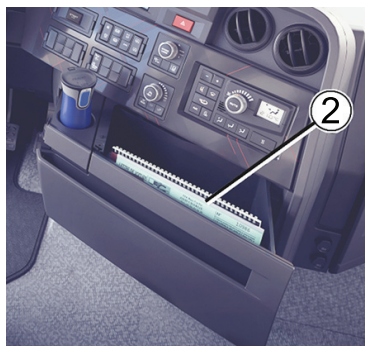


Dashboard storage compartments

To open the dashboard storage drawer, place your hand in the handle (1), press firmly on the unlock latch, then gently pull the drawer towards you.



A space between the front of the drawer and the flap (2) is provided for storing A4 sized documents to prevent them getting lost or damaged.



Cup holder

The cup holder (3) is located near the steering wheel. Pull up to use. Push down to store away.



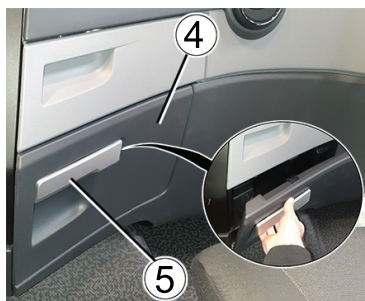
Lower glove box (4).

Opening

Lift handle (5).

Closing

Push the door until the lock engages automatically.



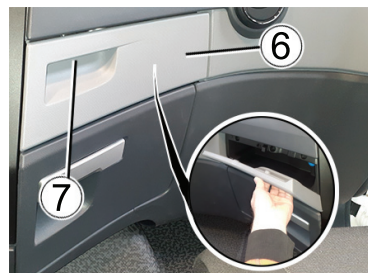
Upper glove box (6).

Opening

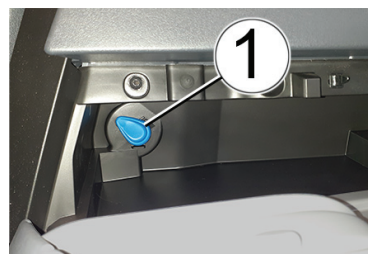
Pull handle (7).

Closing

Push the door until the lock engages automatically.



Turn the valve (1) to cool the glove compartment.



Area (1) is covered with a non-slip surface.



Use area (1) only when the vehicle is stationary. It must be free from any articles when driving or when tilting the cab.

Other accessories

Your Renault Trucks cab is fitted out to give you maximum comfort.

More comfort, less fatigue and therefore safer.

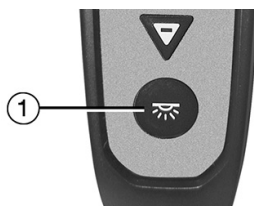
Cab overhead lights

Overhead lights

Button (4) lights overhead lights (6) in the cab and the lighting above the doors at maximum power.



Bunk remote control button (1) controls the overhead lights in the cab.



Night lighting

Button (3) controls the night lighting above the overhead ledge and on the dashboard.

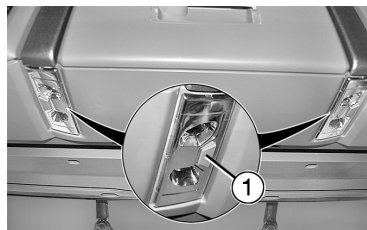
Press on button (1) to return to the initial mode, i.e. to switch off the night lights.



Overhead ledge overhead light

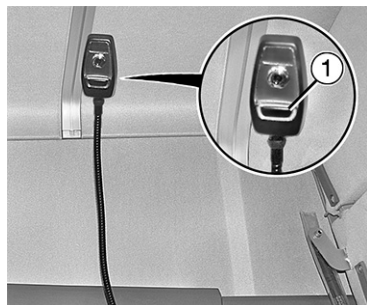
Each lighting module on the header shelf has a switch (1), an overhead light and a map light.

The overhead light and the map light are LEDs controlled by switch (1).



Reading light

Switch on the reading light with switch (1).

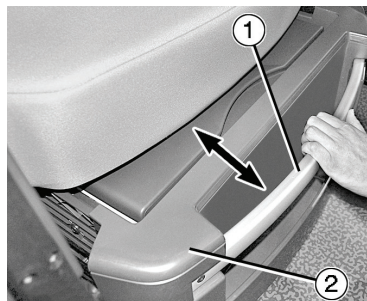


Refrigerator

Unlocking

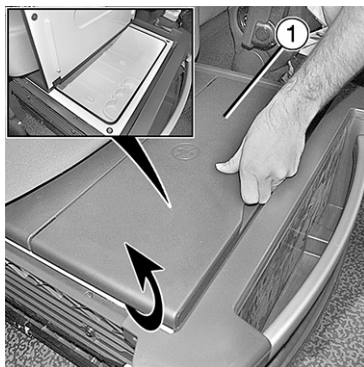
Move your hand behind handle (1) of refrigerator (2); an electric contact unlocks the drawer; pull refrigerator (2) forwards.

There are two possible opening positions. To release the retainer and open the compartment fully, unlock the ignition a second time by touching the handle (1) again.



Partial opening

With the vehicle stationary, partially open the refrigerator by lifting cover (1).



Complete opening

With the vehicle stationary, lower bunk up, open the refrigerator completely by lifting and folding the cover (1).

Locking

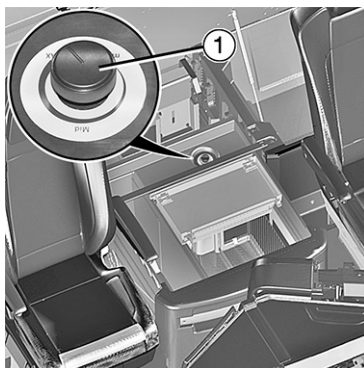
Push refrigerator (2) until the lock engages automatically.



Operations

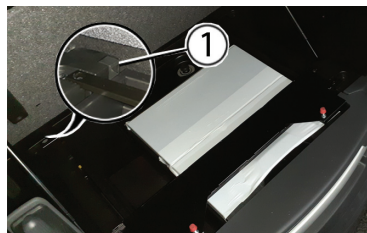
A thermostat (1) regulates the temperature.

To stop the refrigerator, position thermostat on "0".

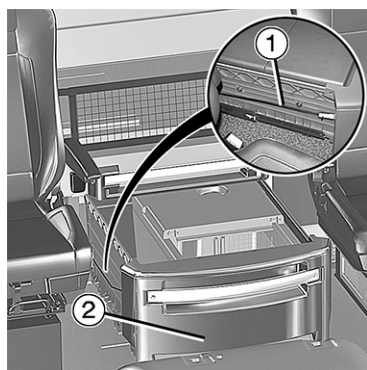


In the event of an electrical power cut

You can unlock drawer (2) of the refrigerator using button (1).



To close the drawer again, pull on cable (1) horizontally, towards the front of the vehicle and push drawer (2) of the refrigerator until the catch engages automatically.

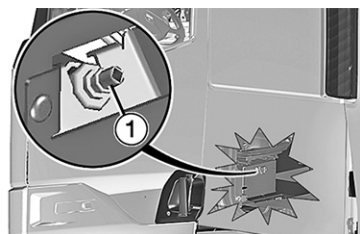


Compressed air adapter for accessories

Adaptor for an air gun (1).



It is prohibited to drive with an accessory connected to the air line.



Tablet and telephone holder

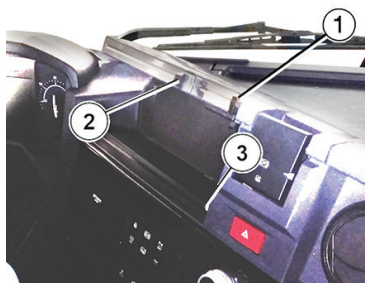
This equipment is intended exclusively for the use of applications in line with the transport applications available on the tablet.



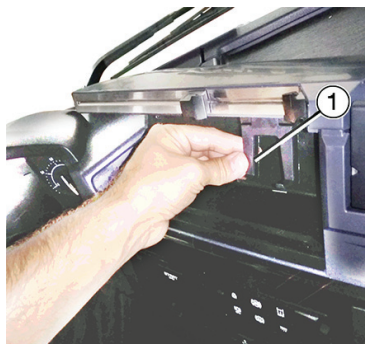
During driving, this equipment must never be used for viewing movies, videos or other similar applications which could distract your attention and prove to be dangerous.

To install a device over 7" on the holder:

- move the slider (2) to the left,
- place your device on the holder. Position it correctly in the cradle groove (3) and against the slider (1),
- fold down the slider (2) to adjust and secure the tablet to the holder.



Unfold the grips (1) to adjust the holder to fit a device with a screen size of under 7".



USB ports are available behind the tablet holder to connect it to the electrical power supply.



The tablet holder includes a magnet. If too close, there is a risk of it interfering with certain electrical devices or magnetic media such as bank cards, USB keys, pacemakers, etc.



RENAULT TRUCKS cannot be held responsible for the incorrect or inappropriate use of this equipment.

In no case can RENAULT TRUCKS be held liable for any damages to the user or third parties in the event of damage to equipment or personal injury associated with or caused by the use of this equipment.

Radio, CD, USB and Bluetooth

Introduction

The following pages explain the general operation of the Renault Trucks CD and CD/USB/Bluetooth car radio models.

The car radio information is displayed on the instrument panel display screen.

The car radio can be operated in three different ways:

Using the buttons on the front of the radio

Using the steering wheel satellite control

Using the infra-red remote control (depending on equipment level)

Using the bunk remote control (depending on equipment level)

The main functions of the car radio include the following:

Radio mode

CD/MP3 mode

USB mode*

iPod/iPhone mode*

Auxiliary input for audio/video devices*

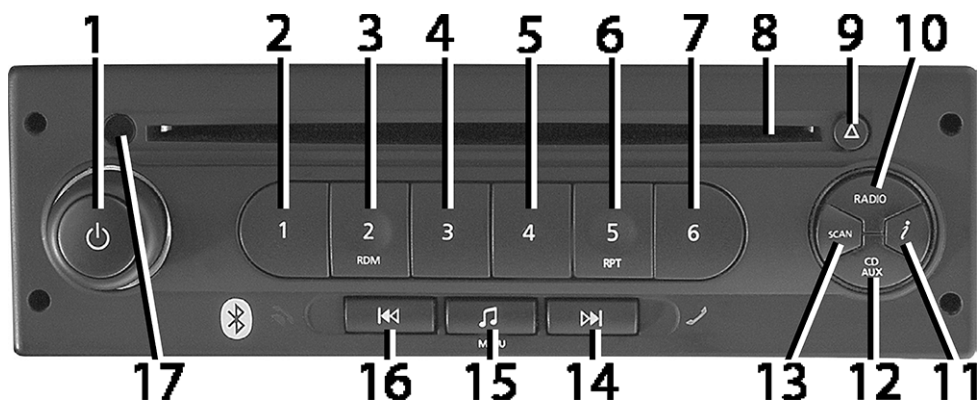
Bluetooth Streaming Audio Mode* (Bluetooth equipment)

Hands-free mode* (Bluetooth telephone)

"Lists" functions*

General presentation of controls

Radio fascia



1/ Volume/On/Off button

Press: Switch on or off

* In the pages of the *car radio* chapter, a star means "applicable if your vehicle is equipped with CD/USB/Bluetooth"

Rotate: Volume adjustment
Mute/Pause activation

2/ Selection button 1

Radio: Short press to recall the stored station
Radio: Press and hold to store the station

3/ Selection button 2/RDM

Radio: Short press to recall the stored station
Radio: Press and hold to store the station
CD: Short press: CD random play
CD MP3/USB*/iPod*: Short press: random play

4/ Selection button 3

Radio: Short press to recall the stored station
Radio: Press and hold to store the station

5/ Selection button 4

Radio: Short press to recall the stored station
Radio: Press and hold to store the station

6/ Selection button 5/RPT

Radio: Short press to recall the stored station
Radio: Press and hold to store the station
CD: Short press: repeat the track
CD MP3/USB*/iPod*: Short press: repeat the track or folder currently playing

7/ Selection button 6

Radio: Short press to recall the stored station
Radio: Press and hold to store the station

8/ CD player

CD: Insert/reject a CD

9/ CD Eject button

General: Eject a CD

10/ Band selection

FM1, FM2, FM3 & AM bands

11/ Information (i-TRAFFIC/i-NEWS)

Radio: Short press: i-TRAFFIC on/off

Radio: Press and hold: i-NEWS on-off

Radio or Media Player: If i-TRAFFIC or i-NEWS, a short press rejects the message

12/ CD/USB*/AUX*/BLUETOOTH* mode selection

Radio: Switch between CD/USB*/AUX*/BLUETOOTH* modes

CD/USB*/AUX*/BLUETOOTH*: Change mode CD/USB*/AUX*/BLUETOOTH*

13/ - SCAN button

Radio: Frequency band scan

14/ Right arrow button

Radio: Next preset (Preset mode), next station (list mode*), next frequency (Auto mode) and + 0.1 MHz/+ 1 kHz (Manu mode)

Audio: Audio adjustment

CD/USB*/iPod*/BLUETOOTH*: Short press: next track

CD/USB*/iPod*: Press and hold: fast forward

BLUETOOTH*: Press and hold: no action

Telephone*: Accept an incoming call

Radio: Press (14) and (16) simultaneously: switch to Auto/Manu mode

15/ Audio Button

General: Short press: audio setting

16/ Left arrow button

Radio: Preceding preset (Preset mode), preceding station (list mode*), preceding frequency (Auto mode) and - 0.1 MHz/- 1 kHz (Manu mode)

Audio: Audio adjustment

CD/USB*/iPod*/BLUETOOTH*: Short press: preceding track

CD/USB*/iPod*: Press and hold: rewind

BLUETOOTH*: Press and hold: no action

Telephone*: Reject an incoming call

Radio: Press (14) and (16) simultaneously: switch to Auto/Manu mode

17/ Infrared receiver

Satellite control steering wheel underside

18/ - Control thumbwheel (located on the rear of the satellite control)

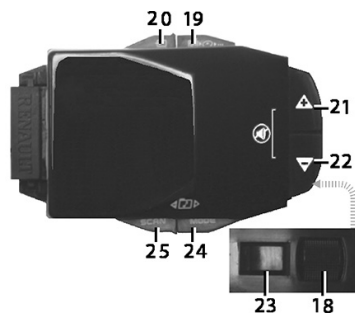
General: From top to bottom: equivalent to Next

General: From bottom to top: equivalent to Previous

Radio: Next/preceding preset (Preset mode), next/preceding station (list mode*), next/preceding frequency (Auto mode) and +/- 0.1 MHz or +/- 1 kHz (Manu mode)

Audio: Audio adjustment

CD/USB*/iPod*/BLUETOOTH*: Next/preceding track



19/ Source button

General: Select the source: FM/AM/CD/USB*/iPod*/AUX*/BLUETOOTH*

CD: CD may only be selected if a disc is inserted

USB*: USB can be selected if a USB device is detected

iPod* can be selected if an iPod is detected (iPod will replace USB)

BLUETOOTH*: May be selected if a device with audio streaming functionality is connected to the radio.

20/ Display Button

General: Displays standard information or radio information

21/ Vol + Button

General: Increases the volume

Audio: Audio adjustment

General: Pressing Vol+ and Vol - simultaneously: cuts the sound (mute) or stops CD/USB/BLUETOOTH playback (pause)

Telephone*: Pressing Vol+ and Vol- simultaneously: activates telephone secret mode

22/ Vol - Button

General: Decreases the volume

Audio: Audio adjustment

General: Pressing Vol+ and Vol - simultaneously: cuts the sound (mute) or stops CD/USB/BLUETOOTH playback (pause)

Telephone*: Pressing Vol+ and Vol- simultaneously: activates telephone secret mode

23/ - Audio button (located on the rear of the satellite control)

General: Audio Adjustment

24/ - Mode button

Radio: selects Tuner mode (Manu/List*/Preset)
CD MP3/USB*: next folder (+)

25/ Scan button

Radio: Frequency band scan
CD MP3/USB*: preceding folder (-)

Steering wheel controls

26/ Exit button

General: Scroll back through the menus. Exit the Radio/Media Player page

27/ Menu button

General: Call the menu

28/ Scroll wheel (located on the rear of the remote control)

General: Short press: confirms a selection in the menus
Rotation, navigation between menus
Telephone: Short press: confirms a contact
Rotation: navigation between contacts

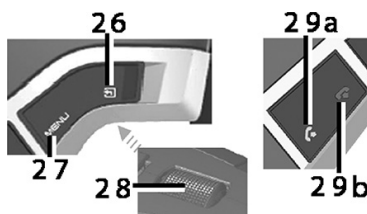
29a/ Pick up button*

Telephone: Short press: Accept a call
Short press: Display contact list/call history
Press and hold: Transfer the call from the radio to the telephone during a call (and vice versa)

29b/ Hang up button*

Telephone: End a call
Reject a call

Infrared remote control



Depending on your vehicle's equipment

30/ Mode Button

Radio: Selects Tuner mode (Manu/List*/Preset)

31/ - PWR Button

General: switches the radio on or off

32/ Seek buttons

Radio: Next/preceding preset (Preset mode), next/preceding station (list mode*), next/preceding frequency (Auto mode) and +/- 0.1 MHz or +/- 1 kHz (Manu mode)

CD/USB*/iPod*/BLUETOOTH*: Preceding/next track

33/ Mute/Pause button

General: Cuts the sound (mute)/Stops CD/USB/BLUETOOTH playback (Pause)

Telephone*: Activates telephone secret mode

34/ Radio button

FM1, FM2, FM3 & AM bands

35/ CD/USB* Button

General: Select the CD/USB*/iPod*/AUX*/BLUETOOTH* source

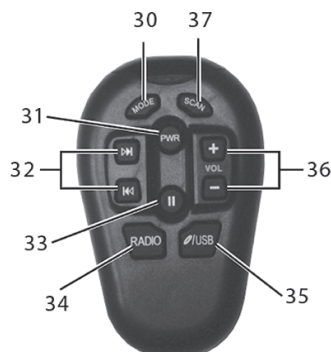
36/ Vol + and Vol - buttons

General: Volume adjustment

37/ - Scan button

Radio: Frequency band scan

Bunk remote control unit



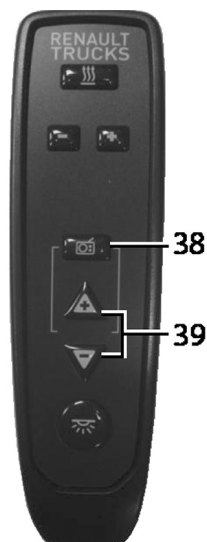
Depending on your vehicle's equipment

38/ PWR Button

General: switches the radio on or off

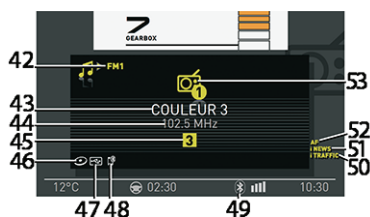
39/ Vol + and Vol - buttons

General: Volume adjustment



Display guide

Radio page



42/ FM1, FM2, FM3, AM

Displays the selected band

43/ Name of station being listened to

Displays the name of station being listened to (if available)

44/ Radio frequency

Displays the frequency of the station being listened to

45/ Number from 1 to 6

Displays the number of any preset

46/ CD INSERTED

Displayed if a CD is inserted

47/ USB*/iPod*

Displayed if a USB device is detected

48/ Bluetooth Streaming Audio*

Is displayed if a device with audio streaming functionality is connected to the radio.

49/ Bluetooth* General:

Bluetooth mode activated, flashes while searching for a new telephone



Indicates that a telephone is connected

**50/ iTRAFFIC**

Displayed if the function is active

51/ iNEWS

Displayed if the function is active

52/ AF

Displayed if the alternative frequency function is activated (RDS)

53/ Tuner mode

Preset Mode/List Mode*/Manual Mode/Auto Mode

**Radio information in the comfort area**

When the Radio page is not displayed, radio information is displayed in the comfort area.



54/ Tuner mode

Display Preset Mode, List Mode*, Manual Mode or Auto Mode.

55/ Number from 1 to 6

Displays the number of any preset.

56/ Station being listed to

Name of station being listened to (if available) or frequency of station being listened to.

Media player page



57/ CD, USB*, iPod*, AUX*, BT*

Displays the selected media

58/ Track name

Displays the current track name

59/ Playback bar

Displays the playback status (play/pause) and the time elapsed

60/ Artist name

Displays the artist name, if available.

61/ Album name

Displays the album name, if available.

62/ Random

Random play function active

63/ Repeat

Repeat play function active

64/ Track

Current track number

Media player information in the comfort area

When the Media Player page is not displayed, Media Player information is displayed in the comfort area.



65/ Media

Current playback media and functions (random/repeated play)

66/ Track

Current track number

67/ Time and name

Time elapsed and name of track about to play

Radio Data System (RDS)

RDS is used by numerous European radio stations. It is a system through which the stations broadcast additional, inaudible signals in addition to radio broadcasts, which are decoded by the car radio RDS receiver. The parallel flow of information fulfils the following functions:

Programme identification (PI code)

The car radio identifies the station being received by decoding the PI code (for example "BBC", "EUROPE1").

Programme name (PS code)

The name of the radio station appears on the display based on the PS code.

Alternative Frequency (AF)

The range of FM transmitters is quite restricted. Therefore, many stations have different, "alternative", frequencies over which they transmit. In this way if the AF function is activated, the driver can listen to the selected station continuously, without needing to change frequencies. The radio changes from one frequency to another almost imperceptibly and the station name remains unchanged on the display (provided there is a station transmitter in the area).

Traffic information (iTraffic)

This code is displayed when the radio is tuned into a station able to transmit traffic information.

Additional information relating to other networks (EON code)

For example, in France if a network operates FR1, (Frequency 1), FR2 and FR3, this network may broadcast traffic information via any of its stations. If you are listening to FR1 and traffic information is being broadcast on FR2, this function will change the station (from FR1 to FR2) so that you can listen to updates. Once the traffic announcement ends, the receiver tunes back to FR1. Note: this change only occurs if iTraffic is active.

Emergency announcement (RDS code PTY31)

In the event of a serious incident, an emergency announcement is transmitted as a priority over the other functions.

Use of the car radio in complete safety

In particular when driving

Current traffic conditions require that the driver pays full attention to the road at all times. You should remain fully focussed on the road when listening to the car radio while driving. Therefore, when driving it is recommended that you:

A black octagonal sign with a white border and the word "STOP" in white capital letters in the center.

NEVER CHANGE A CD.

ENSURE THAT THE VOLUME OF THE CAR RADIO DOES NOT MASK EXTERNAL NOISE.

AVOID READING CD INLAY CARDS OR CONNECTING AN EXTERNAL AUDIO SOURCE (E.G.: USB SOURCE*).

IF AVAILABLE, USE THE SATELLITE CONTROL TO CHANGE STATIONS OR TRACKS ON THE CD/USB*/IPOD*.

Audio Mode

Volume adjustment

There are four ways to adjust the volume of the car radio:

By turning the thumbwheel (1) on the front of the radio.

Using the buttons (21) and (22) on the satellite control.

Using the buttons (39) and (40) on the bunk remote control (if fitted).

Using the buttons (36) on the infra-red remote control (if fitted).

Mode On/Off, Mute/Pause

To turn the car radio on or off

To turn the car radio on or off, press button (1), (38) or (31). Once switched on, the car radio defaults to the last music source that was activated.

To activate or deactivate the Mute/Pause function

Simultaneously press the buttons (21) and (22) on the satellite control or the button (33) to activate or deactivate the MUTE/PAUSE function. Turn thumbwheel (1) quickly to the left to activate the MUTE function (if the volume is less than 25). To deactivate the function, press on one of the satellite control buttons or turn the thumbwheel (1).

Reminder: Mute: instantly cuts out the sound (in radio and AUX modes)

Pause: stops CD or USB/iPod/Bluetooth source playback

Audio settings

Bass

To adjust the bass, press the Audio button (15), or the Audio button on the satellite control (23).

The bass can be adjusted using the buttons (16) and (14), buttons (21) and (22) or the thumbwheel on the satellite control (18).

Midrange

To adjust the midrange, press the Audio button (15) (twice), or the Audio button on the satellite control (23).

The midrange can be adjusted using the buttons (16) and (14), buttons (21) and (22) or the thumbwheel on the satellite control (18).

Treble

To adjust the treble, press the Audio button (15) (3 times), or the Audio button on the satellite control (23). The treble can be adjusted using the buttons (16) and (14), buttons (21) and (22) or the thumbwheel on the satellite control (18).

Balance

To adjust the balance, press the Audio button (15) (4 times), or the Audio button on the satellite control (23).

The balance can be adjusted using the buttons (16) and (14), buttons (21) and (22) or the thumbwheel on the satellite control (18).

Fader

This setting is only accessible if the cab is fitted with rear loudspeakers.

To adjust the fader, press the Audio button (15) (5 times), or the Audio button on the satellite control (23).

The fader can be adjusted using the buttons (16) and (14), buttons (21) and (22) or the thumbwheel on the satellite control (18).

Radio Mode

Wave band selection (FM and AM)

Selection of a frequency band

To select the radio frequency band (AM/FM1/FM2/FM3), press Radio button (10) or (34) on the Infra-red remote control.

Press the Source button (19) on the satellite control to select AM or FM.

Mode change (Auto-manu/List*/Preset)

To change mode, use button (26) on the satellite control or button (30) on the infra-red remote control; the selections available are:

AUTO/MANU: the search for stations is performed manually

LIST*: navigation between stations via a list of available stations

PRESET: navigation between preset stations (see next chapter)

There are two ways to search for stations in MANU mode: Auto and Manu. This adjustment is made via the AUDIO menu (see chapter Radio Menu in the instrument panel, tuner section) or by pressing (16) and (14) twice.

Storing radio stations

Six stations can be stored per wave band (AM/FM1/FM2/FM3).

To store the current station, simply press and hold one of the preset buttons (2) to (7).

The station will be saved. An audible signal confirms that the station has been saved.

Recalling a saved station

Select the band required (FM1, FM2, FM3, AM) using button (10) or (34), then select the station using buttons (2) to (7).

Use the thumbwheel (18) in Preset mode.

OR

Use button (16) or (14) in Preset mode.

OR

Use (32) in Preset mode.

Search for a station in list* mode

To search for a station in List mode, use the search buttons (16) and (14), (32) or the thumbwheel (18) on the satellite control.

Search for a station in auto mode

Switch to Auto mode by simultaneously pressing buttons (16) and (14) or via the AUDIO menu (see chapter on instrument panel Radio Menu, tuner section).

To search for a station, proceed as follows:

In auto mode, use search buttons (16), (14), (32), or thumbwheel (18) on the satellite control to scan up or down the wave band (FM or AM). When a station with a sufficiently powerful signal is found, the search function stops.

The current station can then be stored by pressing and holding the buttons (2) to (7).

Search for a station in Manu mode

Switch to Manual mode by simultaneously pressing buttons (16) and (14) or via the AUDIO menu (see chapter on instrument panel Radio Menu, tuner section).

To search for a station, use buttons (16), (14), (32) or thumbwheel (18) of the satellite control to manually scan the band (FM or AM) up to the desired frequency (increment of +/- 0.1 MHz or +/- 1kHz).

The station can then be stored by pressing and holding the buttons (2) to (7).

Scan Function

In Scan mode, the radio scans the current wave band (AM or FM) and stops for 10 seconds at each station found. During this period, the name and/or frequency of the station is displayed. The station can be stored using the preset buttons (1 to 6).

Press the Radio button (13), (37) or the Scan button (25) on the satellite control to start the Scan function. The Scan function can be stopped at any time by pressing one of the buttons on the radio, the satellite control or the infra-red remote control (except for button (15) (23)).

Function iTraffic/iNews

Activating/deactivating traffic information

To activate traffic information, press button (short press) (11).

To deactivate this function, proceed as follows.

Activating/deactivating information messages

To activate information messages, press and hold button (11).

To deactivate this function, proceed as follows.

Rejecting an iTraffic/iNews announcement

To reject an announcement, press button (11) briefly.

CD/CD MP3 mode

The formats supported by the CD player and USB* drive are: MP3/WMA/CDDA/AAC.

Switchover to CD mode

There are four ways of switching to CD mode:

By inserting a CD into the CD player (8) (READING MEDIA is displayed for several seconds).

By pressing on the CD/AUX button (12) until "CD" is displayed, if a CD is inserted.

By pressing button (19) on the satellite control, until "CD" is displayed, if a CD is inserted.

By pressing button (35) on the infra-red remote control (if fitted).

The following warning light appears if a CD is present:



Ejecting a CD

To eject a CD, press the eject button (9). Once the CD has been ejected, the car radio switches to tuner mode. The CD is reinserted automatically if it is not removed within 20 seconds.

The CD can be ejected even if the car radio is switched off.

Changing track

There are three ways to change CD tracks

By pressing (short press) the buttons (16) or (14).

By using thumbwheel (18) on the satellite control.

By pressing buttons (32) on the infra-red remote control (if fitted).

Fast forward or rewind

Press and hold buttons (16) or (14).

Random play mode

To listen to tracks on a CD in random order, press the RDM button (3) while listening to the CD.

When using MP3 media, you can perform random playback of one folder or the entire CD. To do so, press button (3) (Random mode activated).

- If this playback mode is the only one active, random playback will apply to the entire CD.

- If this playback mode is combined with looped playback of the current folder (RPT FOLDER), the random playback mode will be active only for the folder being played.

Pressing buttons (14) or (16) briefly switches to the next/previous track while still continuing RDM function.

Press and hold allows fast forward or rewind while still continuing the RDM function. The RDM function can be deactivated at any time by pressing the button until "RDM OFF" appears (3);

The CD returns to normal playback from the current track.

Loop playback mode

To play a track on a CD again, press the RPT button (6).

When using an MP3 medium, it is possible to repeat a folder or a track. To do this, press button (6) several times (RPT FOLDER = current folder, RPT TRACK = current track, RPT ALL = repeat CD).



It is not possible to combine loop playback with random play.

Changing album or folder (CD-mp3 and USB* only)

To move to the previous album or folder without scrolling through every track, briefly press the Scan button (24) folder (+) on the satellite control.

To move to the next album or folder without scrolling through every track, briefly press the Scan button (25) folder (-) on the satellite control.

USB mode*

There are four ways of switching to USB mode:

By connecting a compatible USB source to the car radio. (USB socket nearby)

By pressing the CD/AUX button (12) until "USB" is displayed on the screen (if a USB source is connected).

By pressing the Source button (19) until "USB" is displayed on the screen (if a USB source is connected).

Press the button on the infrared remote control (if fitted)

The following warning light appears if a USB peripheral is detected:



Refer to the details of the functions accessible in USB mode in the "CD/CD MP3 Mode" section.

Note: not all USB media are compatible with the car radio, only "mass storage devices" (external storage) and similar devices are compatible (passive equipment, such as "USB sticks" without integrated software, equivalent mp3 players and some phones). If the

equipment is detected but not recognised, a message appears on the screen; If the device is not detected, no message is displayed.



It is recommended that you do not disconnect a USB source during playback. Change the source (switch to radio or CD mode, for example) or turn off the car radio before disconnecting the device. Moreover, instead of connecting the USB device directly to the socket, use of an intermediate cable is recommended.

Aux mode*

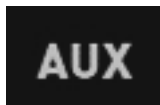
There are three ways of switching to Aux mode.

By pressing the CD/AUX button (12) until AUX is displayed on the screen.

By pressing the Source button (19) on the satellite control until AUX is displayed on the screen.

By pressing buttons (32) on the infra-red remote control (if fitted).

The following warning light appears if AUX is the active source:



Note: the AUX input is passive, therefore it is not possible to use equipment connected via the satellite control or the car radio front, except for volume adjustment or changing the audio source (e.g.: returning to Radio mode). Note also that AUX mode is accessible even if no equipment is connected.



The audio volume of an AUX source may differ from other sources (radio, CD, etc.) and depends on the connected equipment. Therefore it may be necessary to adjust the volume to a level quite different from the usual level.

iPod* (or iPhone) mode

Connecting the iPod

The iPod volume should be set to maximum before connecting to the car radio.

To connect an iPod, a data cable is required (iPod and USB connectors, included with the iPod).

When the iPod is connected to the car radio, all of its controls are disabled (depending on version). All iPod operations are carried out via the car radio.

Switching to iPod mode

There are four ways of switching to iPod mode:

By connecting an iPod to the car radio using the cable provided.

By pressing the CD/AUX button (12) until iPod is set as the active source (if connected).

By pressing the SOURCE button (19) on the satellite control until the iPod is set as the active source (if connected).

By pressing buttons (32) on the infra-red remote control (if fitted).

The following warning light appears if an iPod is connected:



Disconnecting the iPod

No special preparation is required to disconnect the iPod. When the iPod is disconnected, the car radio switches to tuner mode.

iPod menus

To access the iPod menu:

1. press the Menu button (27) located on the steering wheel.
2. turn the thumbwheel (28) located under the steering wheel to select "Comfort".
3. confirm by pressing the thumbwheel.
4. in the same way, select "iPod".

The following menu items are available, navigation is carried out in the same way as described previously.

TRACKS: lists the tracks by track name. The prefix "the" is ignored.

ALBUMS: lists the tracks by album. The prefix "the" is ignored.

ARTISTS: lists the tracks by artist. The prefix "the" is ignored.

PLAYLIST: displays the iPod playlists.

GENRES: displays tracks by genre. The prefix "the" is ignored.

AUDIO BOOK: displays iPod audio books.

PODCASTS: displays iPod podcasts.

To exit one of these items, press the EXIT button (26) located on the steering wheel as many times as is necessary.

Changing track

There are three ways of changing tracks on an iPod:

- By pressing (short press) the buttons (16) or (14).
- By using thumbwheel (18) on the satellite control.
- By pressing buttons (32) on the infra-red remote control (if fitted).

Fast forward or rewind on an iPod

- Press and hold button (14) to fast forward.
- Press and hold button (16) to rewind.

Random play mode

For random playback of tracks, proceed as follows: press the RDM button (3) to display "RANDOM ON" or "RANDOM OFF".



Random playback applies to the current selection. Random playback is also available in the iPod Menu based on the classic iPod operating scheme.

Loop playback mode

To repeat tracks, proceed as follows: press the RPT button (6) to display "REPEAT ON" (repeat all) or "REPEAT TRACK" (single track) or "REPEAT OFF".

Bluetooth streaming audio mode*

For this source to be available, an audio streaming-compatible Bluetooth device must be connected to the radio. Refer to the "Bluetooth Connection" section for connection details.

Switching to Bluetooth audio streaming mode

There are 3 ways of switching to BLUETOOTH STREAMING AUDIO mode

- By pressing the CD/AUX button (12) until "BLUETOOTH" is displayed.
- By pressing button (19) of the satellite control until "BLUETOOTH" is displayed.
- By pressing button (35) on the infra-red remote control (if fitted).

The warning light is displayed if the BLUETOOTH Streaming Audio source is available:



Changing track

There are three ways of changing tracks on an iPod:

- By pressing (short press) button (16) or (14).
- By using thumbwheel (18) on the satellite control.
- By pressing buttons (32) on the infra-red remote control (if fitted)
- By changing directly using the Bluetooth device.



- The operating mode described above for changing tracks will work with the majority of Bluetooth devices. However, it is possible that on some device models it will only be possible to change tracks on the device itself.

- Due to the diverse range of Bluetooth devices available on the market, the following functions are not available via the radio on the Bluetooth Streaming Audio source:

- Fast Forward
- Rewind
- Random playback
- Repeat playback
- Folder navigation



If the Bluetooth device is disconnected during playback, the radio will automatically return to tuner mode in the station last listened to.

Telephone/hands-free mode*

For this function to be available, a telephone-compatible Bluetooth device must be connected to the car radio. Refer to the "Bluetooth Connection" section for connection details.

Accepting an incoming call

There are three ways to answer an incoming call:

Press button (14) on the car radio.

Press button (29a) located on the steering wheel.

Press button (40) on the bunk remote control.

Rejecting an incoming call

There are two ways to reject an incoming call:

Press button (16) on the car radio.

Press button (29a) located on the steering wheel.

Hanging up after a call

There are three ways to hang up:

Press button (16) on the car radio.

Press button (29b) located on the steering wheel.

Press button (40) on the bunk remote control.

Transferring a call

This action stops the hands-free function and transfers the call to the phone. To do this, press and hold button (29a) or (40). This function is only accessible during a call.

Making a call (directory/recent calls)

To make a call (the Bluetooth function must be active and a telephone connected):

press button (29a).

Use the thumbwheel (28) to select "Directory" or "Recent Calls".

Select the contact to call.

Volume adjustment

To adjust the call volume:

By turning the thumbwheel (1).

Using the buttons (21) and (22) on the satellite control.

Using the buttons (39) and (40) on the bunk remote control (if fitted).

Using the buttons (36) on the infra-red remote control (if fitted).



The microphone for the hands-free function is located in the overhead console, close to the driver's head; this function does not work correctly from the bunk.

Secret mode

Secret mode deactivates the hands-free microphone inside the cab. To activate or deactivate this mode, simultaneously press buttons (21) and (22) on the satellite control or button (33) on the infra-red remote control.

Once this mode is activated, the following icon is displayed on the screen:



Loss of connection

If the driver leaves his cab, he may lose the Bluetooth connection. The system will then attempt to reconnect automatically for a period of 15 minutes. Once this period of time has elapsed, manual connection is required (refer to the chapter on Connecting a telephone).

Temporary interruption of hands-free mode

If the driver is operating outside of the cab but in the immediate vicinity, the hands-free function will still be valid, but he will not be able to receive a call on his telephone. In this case, simply switch the radio off to release the telephone. Upon returning to the cab, the driver simply turns the radio back on to reconnect his telephone automatically (if it fails to reconnect, refer to the chapter on Connecting a telephone).

Bluetooth connection *

Bluetooth functions are only available when the radio is switched on.

Activating/deactivating Bluetooth (BT)

This function can be used to activate a Bluetooth connection. Press the Menu button located on the steering wheel (27).

Navigating using the thumbwheel (28), select "Comfort", "Bluetooth device", "Activ. of Bluetooth".

Adding a device

This is a Bluetooth device pairing operation, that is establishing a connection between the car radio and the Bluetooth device and adding the device to the list of paired devices. To do so, proceed as follows:

In the Bluetooth Device menu, select "Add a Device" (Bluetooth must be activated).

Your device should have Bluetooth active and not hidden, search for the "Renault Trucks" device and activate the connection.

There are two ways to confirm the connection:

Enter a 4-digit PIN code in the radio and in the device.

- Confirm a 6-digit code displayed simultaneously on the radio and on the device.

When your device is connected, the following icon is displayed on the instrument panel screen:



For more information on Bluetooth, please refer to the device user guide.

Removing a device

To remove a device from the list, proceed as follows:

In the Bluetooth Device menu, select "Remove a Device"

Use the thumbwheel (28) to select the device to be removed, then confirm deletion by pressing the thumbwheel.

Note: By selecting "Delete All" you will delete all the items in the list.

Connecting a device

This function is used to activate a device in the list of paired devices. Proceed as follows:

In the Bluetooth Device menu, select "Select a device".

Select the device to be connected to the radio (it must be in Bluetooth available mode).

Connection is established when the following icon is displayed on the panel of the selected device:



If the radio was previously connected to another device, this connection is lost.

- To inform you of the functions that are supported by the device connected, the following icons are displayed to the right of the device name if the function is available.

The Bluetooth streaming audio function is available



The Telephone/Hands-free function is available



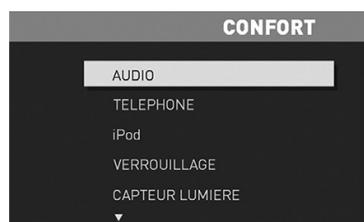
Instrument panel radio menus

This menu is used to access the radio, Bluetooth and iPod configuration settings. To access:
Press the "Menu" button (27) located on the steering wheel.

Select the "COMFORT" menu using the thumbwheel (28).

Select "Audio"

To exit the menu, use button (36) as many times as necessary or wait for several seconds (about 30 seconds) the menu interface will close automatically if no control is operated.



Audio menu

RDS/AF (alternative frequency) function

OFF: the radio will not change frequency by itself.

REGIONAL: the radio stops on the best available frequency for the current station (recommended).

LOCAL: the radio stops at the best local frequency available for the current station (for stations broadcasting local programmes).

Deactivating AM (long wave and medium wave)

NO: AM activated

YES: AM deactivated

Deactivating the AUX* source

NO: AUX activated

YES: AUX deactivated

Tuner

There are two means of controlling radio manual mode.

AUTO: The station scan is performed automatically (the tuner stops at the next detected station)

MANU: Station selection is completely manual (steps of +/- 0.1 MHz or +/- 1 kHz)

Activation/deactivation of speed-dependent automatic volume adjustment

This configuration can be set to MIN, MEDIUM, MAX or OFF.

Bunk audio settings

This adjustment configure the bass, midrange and treble, balance and fader (if available) for bunk use. It is independent of the radio adjustment made in driving mode (see the Audio mode/Audio settings section).

These settings are activated/deactivated by pressing button (41) on the bunk remote control.

They are automatically deactivated once the vehicle is in motion.

Auto Loudness

OFF: Auto loudness deactivated.

ON: Auto loudness activated.

Background volume

This setting configures the desired background sound level (radio, media) during a telephone call, a traffic announcement or a message issued by the navigation system.

OFF: The volume of the source being listened to is switched to MUTE.

MIN: The source volume switches to a very low level.

MEDIUM: The source volume switches to a low level.

MAX: The source volume switches to a medium level.

Bluetooth Device menu*

See "Bluetooth Connection" section

iPod menu*

See "iPod (iPhone) mode" section;

Location of radio peripherals

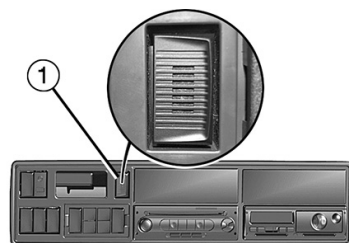
Depending on your vehicle's equipment

Header shelf

(1) - Microphone

The microphone is used in the telephone hands free mode with Bluetooth functionality.

Refer to the radio handbook supplied in the on-board kit.

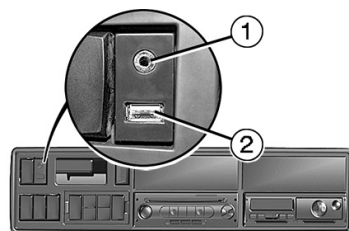


(1) - Auxiliary socket

(2) - USB socket

The auxiliary and USB sockets are used to connect to an external source compatible with the radio.

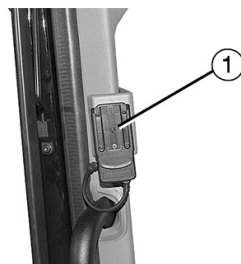
Refer to the radio handbook supplied in the on-board kit.



Depending on your vehicle's equipment

Telephone cradle

If your vehicle is fitted with the telephone cradle option (1), visit the website www.carcommshop.com/renault-trucks to order the interface corresponding to your telephone.





Heating - Ventilation - Air
conditioning

Optimised automatic air conditioning

The air conditioning/ventilation/heating system cools or heats, and also dehumidifies the cab air. The sensors detect the temperature in the cab to activate the air flow control according to the prevailing weather conditions, and the user's preference.

It is normal for condensation water to run under the truck when it is hot outside.

Heating - Ventilation - Automatic air conditioning



Heating and automatic air conditioning controls:

- (1) - Temperature adjustment controls.
- (2) - Ventilation adjustment control.
- (3) - Information display with information on air distribution and the temperature setting.
- (4) - Parking heater control.
- (5) - Air distribution controls in cab.
- (6) - De-icing/de-misting control.
- (7) - Air recycling control.
- (8) - Air conditioning control.
- (9) - Rearview mirror de-icing control.

Temperature adjustment controls

Used to adjust to the temperature required:

- press control (1) to decrease the temperature,
- press control (2) to increase the temperature.



A short press on controls (1) or (2) will decrease or increase the temperature setting on information display (3) by 0.5°C.

Pressing and holding controls (1) or (2) will decrease or increase the temperature setting on information display (3) instantaneously by 0.5°C then by increments of 1°C until the control is released.



Depending on the predefined adjustment value, a few minutes may elapse before reaching the temperature required to judge the result and modify the setting slightly if necessary.

Ventilation control

Manual ventilation mode

This mode activates the ventilation system and displays associated indicator pictogram (3). Rotate control (1) clockwise, the indicator for each position lights up depending on the ventilation speed selected.

- Position 1: fan control (1st speed).
- Position 2: fan control (2nd speed).
- Position 3: fan control (3rd speed).
- Position 4: fan control (4th speed).



To reduce the ventilation speed, turn control (1) anticlockwise; the indicator for each position goes out depending on the ventilation speed selected.



An anticlockwise action on control (1) beyond position 1 deactivates the ventilation and information display (3).

Air distribution controls

Depending on the position chosen, controls (1/2/3) distribute the air between the different air vents.

Associated with the ventilation control, they optimise the temperature depending on the positioning of these air vents.



When operating in automatic heating comfort mode, a press on one of the controls (1/2/3) cancels this mode and the settings memory feature.

Position 1 Air directed upwards (windscreen and front of side windows) and slight flow on the dashboard air vents.

Position 2 Air directed downwards (to feet) and slight flow upwards (air vents on dashboard and rear of side windows).

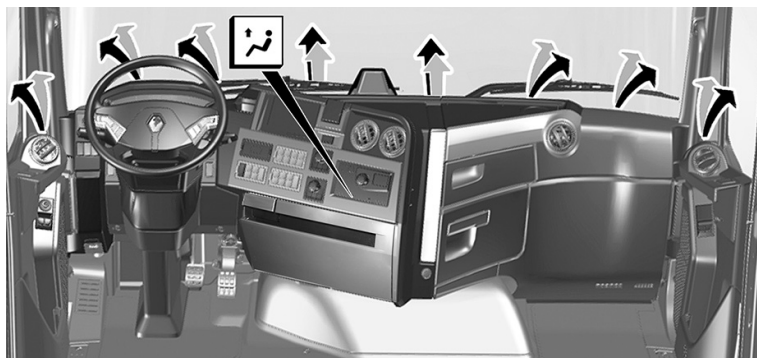
Position 3 Air directed to the middle (air vents on dashboard).

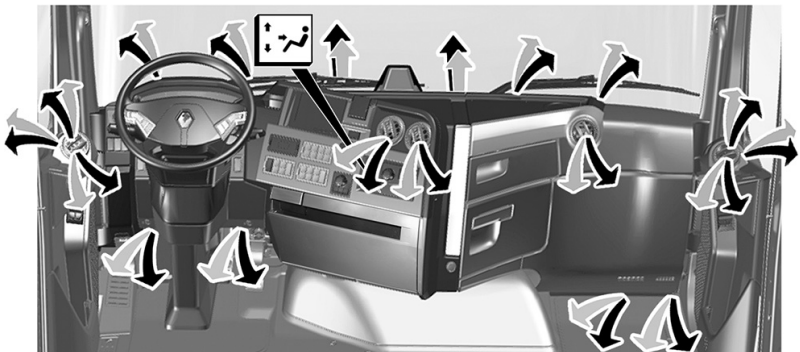
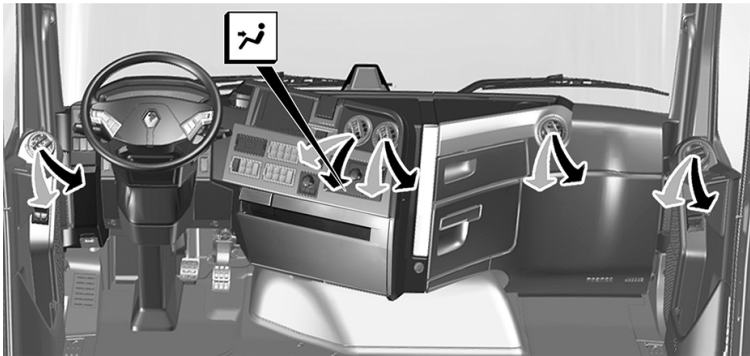
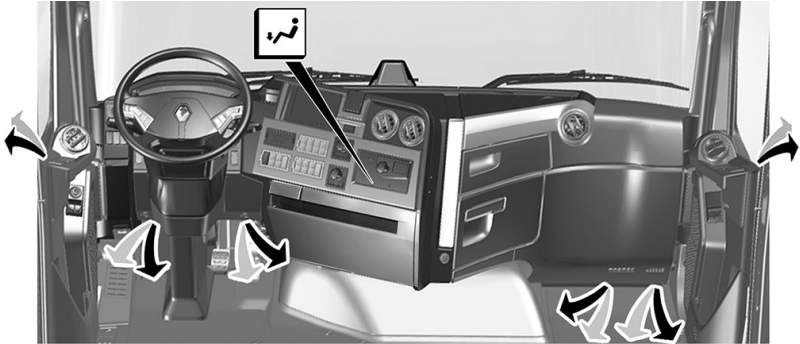


When the side and centre air vents are open, the air flow is distributed between the different air vents selected by each position of control.

To obtain air distribution on the 3 air vent outlet positions, press once on each control (1/2/3).

Dashboard





Air recycling control

To activate the function, press control (1); indicator pictogram (2) is displayed.

During recycling, the air is taken in the cab interior and it is recycled without taking in external air.

Recycling the air prevents the breathing of contaminated outside air (road tunnel, polluted area, etc.).

The air recycling function must only be momentary.

To deactivate the function, press control(1); indicator pictogram (2) is extinguished.



Air conditioning control

The use of this function may lower the cab interior temperature or de-mist more quickly. Press control (1); indicator pictogram (2) is displayed.

Adjust the temperature as required.

To deactivate the function, press control(1); indicator pictogram (2) is extinguished.



After the vehicle has been standing for longer than a week and in order to maintain the service life of the air conditioning system, activate the air conditioning, engine running and at idling speed.

Parking heater control

To activate the function, press control (1); indicator pictogram (2) illuminates and the temperature setting appears on the information display.

Activating the parking heater depends on the external temperature and the temperature setting on the information display.

To deactivate the function, press control (1); indicator pictogram (2) goes out and the temperature setting is no longer displayed on the information display.



De-icing/de-misting control

To activate the function, press control (1); indicator pictogram (2) is displayed.

To optimise its efficiency, the de-icing/de-misting function activates the air conditioning function and automatically controls the temperature, ventilation, recycling and air distribution until the windscreen and the side windows are clear.

Any action on the air distribution control deactivates the de-icing/de-misting function.

To deactivate the function, press control(1); indicator pictogram (2) is extinguished.



Activating the de-icing/de-misting control switches off the automatic heating comfort mode.

All the functions in process before the de-icing/de-misting request are stored in memory to return to the previous state when the function stops.

Rearview mirror de-icing control

With the engine running, press control (1) to activate the function; indicator pictogram (2) is displayed.

To deactivate the function, press control(1); indicator pictogram (2) is extinguished.



The rear-view mirror de-icing control deactivates automatically after 30 minutes of continuous use.

Automatic heating comfort mode

This mode automatically activates the ventilation, air distribution, recirculation and air conditioning systems. Press control (2); the "auto" indicator lights up.

In automatic heating comfort mode, the system manages the air conditioning depending on external temperature, the temperature setting on the information display, the activation of the optimised air recycling function (instead of the air recycling function if it is active), the ventilation speed and the air distribution best suited to achieve and maintain the comfort required.

To deactivate the automatic heating comfort mode, turn control (1) or modify the air distribution.



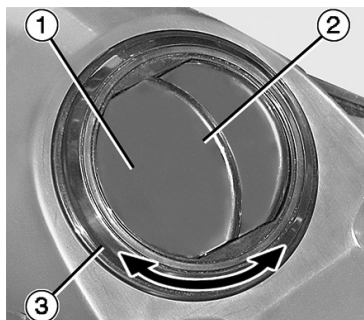
Activating the automatic heating comfort mode deactivates the de-icing/de-misting function and has no effect on the rearview mirror de-icing function.

Air vents

Opening the flow: press on section (1) of the air vent.

Closing the flow: press on section (2) of the air vent.

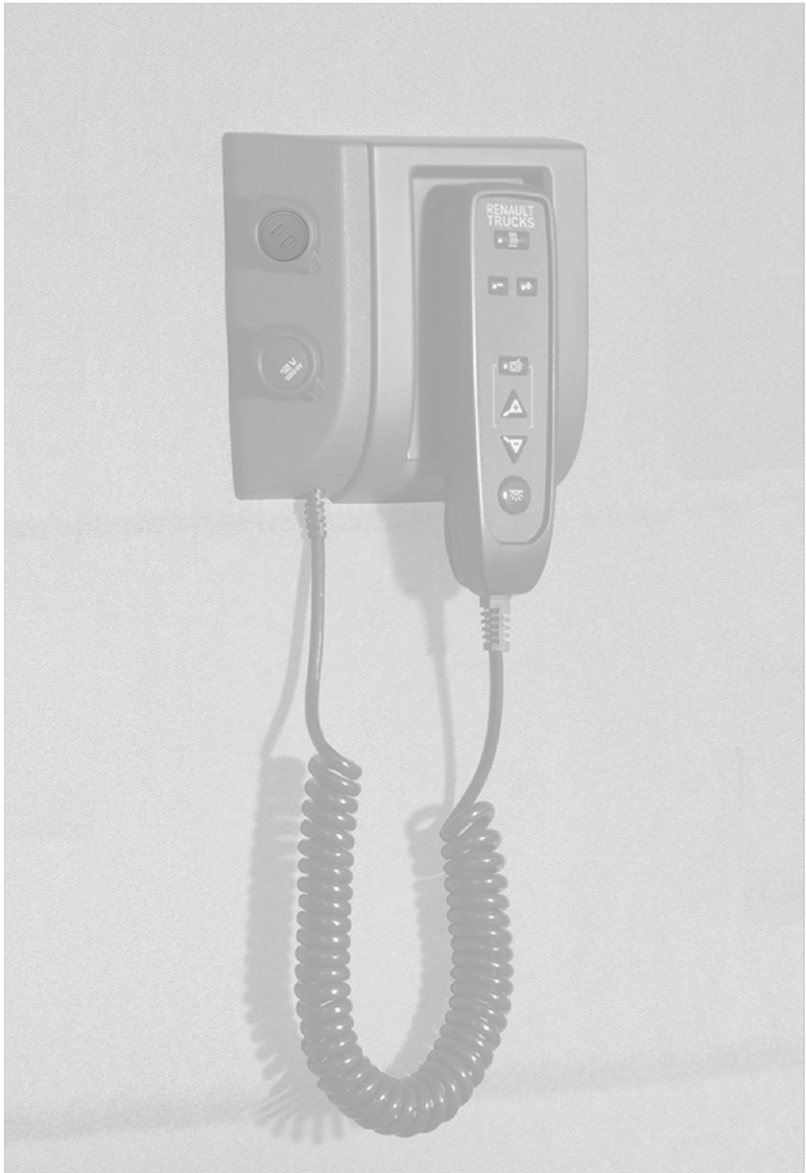
Orientation: hold air vent (3) and turn it to the position required.





STOP

DEVELOPMENTS IN THERMAL AND ACOUSTIC COMFORT HAVE RESULTED IN VERY EFFECTIVE SEALING OF CABS. IT IS THEREFORE NECESSARY TO ENSURE SUFFICIENT VENTILATION (PARTLY-OPENED WINDOWS, ROOF VENTILATION HATCH) TO PREVENT AIR FROM BEING TRAPPED DURING LONG PERIODS INSIDE THE CAB.



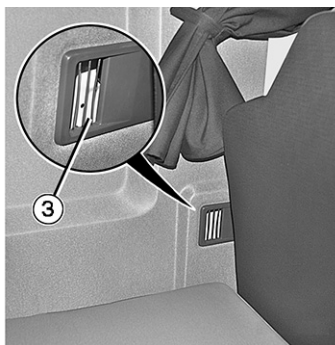
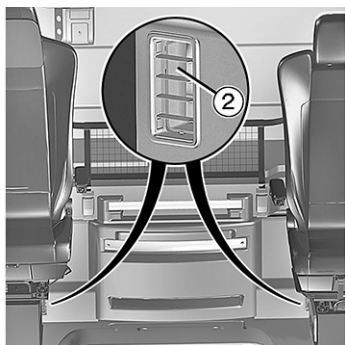
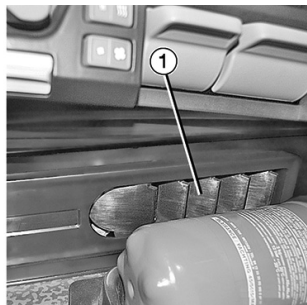
Parking heater

Independent heating

Prior to starting

STOP

BEFORE PERFORMING ANY ACTIONS, ENSURE THAT BLOWER VENTS (1) AND RECIRCULATION VENTS (2), (3) ARE NOT OBSTRUCTED. NO ARTICLES SHOULD BLOCK THE AREA RESERVED FOR THE PARKING HEATER.



For good parking heater performance:

- arrange strap (4) of the wrap-around curtain to prevent obstruction to hot air outlet for bunk area (3);
- do not remove recirculation grille(s) (1).

To have a more rapid temperature rise in the lower bunk, you can pull the separation curtain in the "Sleeping cab".



Under certain temperature conditions, if the function has been activated, your vehicle's parking heater will automatically switch on or off for your comfort and to optimise the vehicle's fuel consumption as soon as you start your vehicle.

You can activate or deactivate this function in the vehicle menu on the multifunction display.



For all RENAULT TRUCKS vehicles using fuel not meeting Standard EN 590, 7% maximum VOME (Vegetable Oil Methyl Ester), the following recommendation must be followed strictly:

- *in order to ensure the smooth operation and safeguard the warranty of the parking heater, it must be operated throughout the year, i.e. approximately 20 minutes every month.*



When using the parking heater at high altitudes or if you notice any smoke during use, contact a RENAULT TRUCKS approved parking heater garage to have the combustion adjusted.

Any other operation on the heater must be carried out by a RENAULT TRUCKS approved parking heater garage.



To avoid reducing the service life of parking heaters ATEvo2000 and ATEvo3900, stop the heating before tilting the cab.



The parking heater body must be replaced every 10 years. This operation must be performed by a WEBASTO-qualified RENAULT TRUCKS garage using an original part.

Impact of using the ignition key on the operation of the parking heater

Pressing the button (2) on the remote control locks the doors, but maintains power to the parking heater. This means that even after the cab has been locked, the parking heater and its settings will remain active.



Press the button (3) on the remote control to switch off the main power supply or switch the vehicle to low consumption mode.

This will cut off the power supply to the fridge and the parking heater, preventing them from starting up even if they have been set to do so.



When the engine is switched off automatically after a long period of idling without any action on your part, the independent heater will remain in operation.

How the system works

Operating independently of the engine, this heater provides excellent thermal comfort, heating the cab even when stationary.

It also gives you the option of warming up the vehicle's cooling system so that your vehicle is ready to go as soon as you are.

Parking heater control

To activate the function, press control (1); indicator pictogram (2) illuminates and the temperature setting appears on the information display.

Activating the parking heater depends on the external temperature and the temperature setting on the information display.

To deactivate the function, press control (1); indicator pictogram (2) goes out and the temperature setting is no longer displayed on the information display.



Temperature adjustment control on heating module

Temperature adjustment controls on heating module

Used to adjust to the temperature required:

- press control (1) to decrease the temperature,
- press control (2) to increase the temperature.



A short press on controls (1) or (2) will decrease or increase the temperature setting on the information display by 0.5°C.

Pressing and holding controls (1) or (2) will decrease or increase the temperature setting on the information display instantaneously by 0.5°C then by increments of 1°C until the control is released.

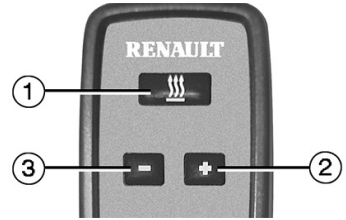
Temperature adjustment controls on the remote control

Press on control (1) to activate or deactivate the parking heater.

Used to adjust to the temperature required:

- press control (2) to increase the temperature;
- press control (3) to decrease the temperature.

A short press on controls (2) or (3) will decrease or increase the temperature setting on the information display by 1°C.



Depending on the predefined adjustment value, a few minutes may elapse before reaching the temperature required to judge the result and modify the setting slightly if necessary.

Heating operating time

The parking heater has an operating time limited to 10 hours.

In the event of using the timer, the operating time of the heating device is limited to 120 minutes.

Heating program

To programme the heating, refer to the **Multifunction information display** section.



It is forbidden to use the heating device in enclosed areas or in places where inflammable or explosive vapours or dust accumulations may form.

Avoid exposing gas canisters and spray cans to the hot air flow.

If electric welding is carried out on the vehicle, the batteries must be disconnected to avoid irreparable damage to the electronic control system.

Stop the heating device before switching off the master switch.

Operating incidents

Heater will not start

The heater does not start; check fuse(s) F69.

Replace if necessary.

Activate control again (1).

If the heater does not start after the start-up cycle, contact a RENAULT TRUCKS parking heater approved garage.

Heater stops while in operation

Heater overheating

Ensure that the blower vents and recirculation vents are not obstructed.

After a few minutes, restart the device (warning pictogram displayed).

If it stops again, contact a RENAULT TRUCKS parking heater approved garage.

To restart, switch off the control and restart (no more than three times).

If the heater stops again, contact a RENAULT TRUCKS parking heater approved garage.

Maintenance

To ensure that the device is working properly and reliably, you must observe the cleaning periods every 30 days, even in times of extremely high exterior temperatures.

This maintenance is necessary to ensure good circulation of the fuel in the heater.

A message repeating this information appears on the information display when this operation is necessary. If you choose not to proceed with the operation, a reminder will be displayed after one week.

To perform the cleaning, you must start up the parking heater and adjust the temperature requested to the highest available value. Leave the system running for at least 20 minutes.



To be sure that the cleaning operation has been done properly, it is important to leave it running on full for at least 20 minutes.

Open the windows if the temperature is too high.

The cleaning operation can also be started from the maintenance menu from the display screen.



At the beginning of winter, if there is a risk that the summer-specific fuel remains in the heater, make sure to empty it completely. If the summer-specific fuel is used in the system in the winter, there is a high risk of the fuel freezing, which can cause material damage.



Safety

Seat belts

The highway code states that you must always wear a seat belt on board a motor vehicle, regardless of where you are sitting.
Always wear your seat belt when you are driving! An alarm will sound a symbol will be displayed on the instrument panel as a reminder to wear your seatbelt, if necessary.

Seat belts with automatic inertia reel

Unroll the strap slowly to engage tongue (1) in buckle (2). If it jams, thread the belt back slightly the unroll again.



Unlocking

Press button (3) on casing (4), the belt is wound in by the inertia reel. Keep hold of buckle (1) to make this operation easier.



Warning pictogram (AA) on the instrument panel informs you that the seat belt is not fastened.



For your own safety, wear your seat belt for all journeys.

Before starting: first adjust your driving position then adjust your seat belt correctly.



NEVER PASS THE HARNESS BELT UNDERNEATH YOUR ARMS OR BEHIND YOUR BACK.

Child safety

The use of a baby and child restraint is a legislative requirement.

In Europe, children under 12 years of age, of a height less than 1.50 metres and a weight below 36 kilograms, must be secured with a type-approved device suitable for the weight and size of the child.

The driver is responsible for ensuring that this device is used correctly.

We recommend that you select a type-approved device that is compliant with the European ECE 44 regulation.



The legislation in effect in the country in which the vehicle is being driven must be abided by. They may differ from those mentioned here.



BABIES AND CHILDREN MUST NEVER BE TRANSPORTED ON THE LAP OF VEHICLE OCCUPANTS.

NEVER USE A SINGLE BELT TO SECURE TWO PEOPLE.

Before installing a child seat in the front (if the installation is authorized)

When the passenger seat is so fitted, proceed to make the following adjustments:

- move the passenger seat back as far as it will go;
- straighten the backrest so it is as vertical as possible;
- lower the seat base as far as possible;
- raise the headrest as far as possible;
- adjust the height of the seat belt in the low position.

Devices to detect other road users

To reinforce safety, your vehicle is fitted with a smart camera and a radar that constantly analyse the condition of the roadway and the traffic in front of you.

Although these systems are very advanced, they have a certain limitations that could catch you out if you are not on your guard.

The system may have problems identifying and handling certain situations.

Always be careful while driving.

Be aware of traffic conditions and be ready to apply the brakes at all times.

Specific driving situations



After a collision or minor impact around the sensor zone, contact a RENAULT TRUCKS service point to check that the operation and settings of the sensors are correct.

- The system has a limited ability to detect:
 - Motorcycles and other small road users
 - Vehicles with unusual shapes, such as boat trailers
 - Vehicles in poor visibility conditions, with strong reflected light or bright lights from oncoming traffic, or reflections from wet roads
 - Vehicles in poor weather conditions, such as fog, heavy rain or clouds of snow from other vehicles



The list provided here is for informational purposes only, and does not depict all situations that may interfere with the system. You should be in constant control of your speed and adjust it according to the profile and condition of the road surface, traffic difficulties, foreseeable obstacles and the legal speed limitations in effect. Relying entirely on the AEBS may put you in dangerous situations that can cause important material damages, serious injury or death.

The system has a limited ability to detect vehicles that are around a bend. The vehicle may brake or accelerate unexpectedly or display unnecessary warnings.



The system has a limited ability to detect stopped vehicles or vehicles whose trajectory is slightly different. The vehicle may brake or accelerate unexpectedly or display unnecessary warnings.



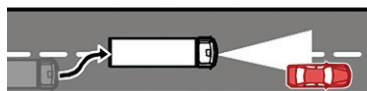
The system has a limited ability to detect vehicles that are decelerating close to your truck, becoming too close for the system to detect. Brake to increase the distance between your truck and the vehicle in front of you.



The system has a limited ability to detect whether the vehicle in front of you is leaving the road or moving in another direction. The vehicle may brake unexpectedly or display unnecessary warnings.



When passing, the system may unexpectedly issue a warning or brake the truck if you are driving too close to the vehicle you wish to pass and you are on the same path.



The system cannot detect obstacles or stopped vehicles ahead of the vehicle in front of the truck. The vehicle may brake or accelerate unexpectedly or display unnecessary warnings.



Using ACC at low speed

The sensors measure the distance to the lower part of the vehicle in front. If the target vehicle has a protruding load, the sensors might not detect this. Pay special attention to protruding load at low speed when there is a short distance to the targeted vehicle and be prepared to brake or deactivate ACC.



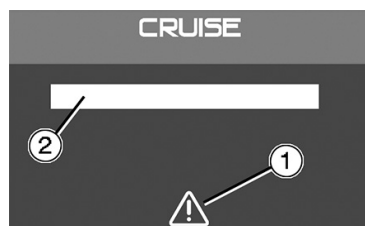
The system accounts for stationary vehicles as well as vehicles travelling in the same direction in the same lane. It does not account for vehicles crossing the lane or coming from the opposite direction. Additionally, the system does not account for animals, pedestrians or bicycles.

Fault present on the radar or camera

If the **"Radar /Blocked"** message and associated warning light (1) are displayed on the multi-function information display, clean the area shown by the picture (snow, ice, dust, etc.).

Once the sensor has been cleaned, the function is reinitialised after a few minutes of driving, or when restarting the vehicle.

If the anomaly persists after cleaning, contact a RENAULT TRUCKS garage.



Area in front of radar where no equipment should be mounted



Never paint, apply adhesive tape or fit anything in front of the radar (e.g. additional headlamp, registration plate, marker plate bracket, bodybuilder equipment, etc.). This could cause sensor failure, making it impossible to guarantee correct system operation.

The radar beam must not be obstructed. All types of equipment (tools, snow blade, accessories, etc.) added in this area will cause malfunctions of the radar and its associated functions.

If in doubt, contact your Renault Trucks dealership.



Area in front of the camera where no equipment should be installed

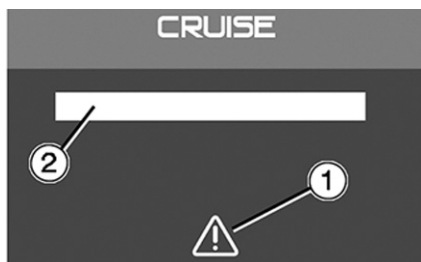
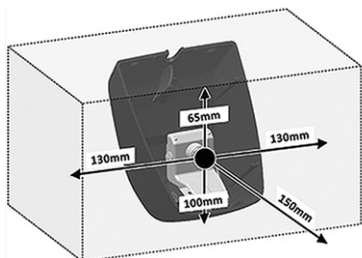
If the (2) "Camera /Blocked" message and associated warning light (1) are displayed on the multi-function information display, clean the area shown by the picture (snow, ice, dust, etc.).

If the anomaly persists after cleaning, contact a RENAULT TRUCKS garage.



Vehicles equipped with the LPOS camera are subject to restrictions regarding the upper section of the windscreen.

No equipment must be installed or intrude over an area of 150 mm in front, 130 mm on either side and 65 mm above and 100 mm below the LPOS camera.

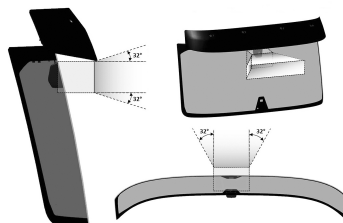


Camera's field of vision where no equipment should be installed



The camera's field of vision must not be obstructed either. Any equipment positioned in this area could interfere with the camera and associated functions.

- *It is not permitted to modify the position of the camera*
- *Do not cover, paint or attach stickers in front of the camera or in its field of vision*





Vehicle operating instructions

Running-in

During the running-in period (approximately 5000 km), only operate the engine at full engine speed over short distances. Do not run the engine at speeds that are too high or too low. Monitor the coolant temperature and oil level carefully.

The vehicle should be laden the same as for normal use.

Use during winter or in cold countries

In cold weather, you must adapt the use of your vehicle in terms of driving style, starting or parking.

Depending on your vehicle's equipment

Starting the engine

See chapter **Driving**.

Before setting off, allow the engine to idle for a few seconds to ensure that the oil is circulating. There is no need to leave the engine warming up for too long; start off at low speed using a range of sufficiently-low gears. Never request maximum engine performance until the temperature has reached 80°C.

A black octagonal sign with a white border and the word "STOP" in white capital letters.

INSTALLING A RADIATOR SHROUD OR RADIATOR GRILLE COVER PLATE IS ABSOLUTELY PROHIBITED ON COOLED TURBOCHARGED ENGINES. THIS ACCESSORY PREVENTS THE COOLING OF THE AIR FROM THE TURBOCHARGER AND THEREFORE IMPACTS ON ENGINE POWER AND PERFORMANCE.

Engine cooling circuit

This vehicle is supplied with "ULTRACOOLING PLUS" coolant (RENAULT TRUCKS Oils product) in compliance with RENAULT TRUCKS specifications. Depending on its country of use, it provides protection against freezing down to -25°C or -40°C.

Vehicle equipped with a robotised gearbox

Activation by low temperature

Follow the instruction below:

In external temperatures below - 20°C, let the engine run for 10 minutes to reach gearbox operating temperature.

Windscreen wiper use



In "very wet snowy" conditions of use, we recommend that you do not use the windscreen ventilation function at its maximum setting, to avoid an accumulation of snow which could affect rains sensor operation. In this scenario, you will need to use manual mode for wiping the windscreen.

Use during summer or in hot countries

Always adapt the use of your vehicle in terms of driving style, starting or parking according to the weather conditions.

Do not labour the engine, shift gear as often as necessary to keep the engine running at an optimum speed. Coolant circulation will be activated and the temperature will be maintained within the operating norms. Clean the radiator fins frequently, where insects and dirt can obstruct air circulation, by blowing through from the rear side with compressed air. Ensure that the radiator is in perfect condition; descale it if necessary.

Use in dusty environments

It is recommended to inspect the air filter clogging indicator carefully every day.

Air filter

Do not forget that clogging of the air filter is a function of engine speed, it follows that in use low gear ratios must be used (mountainous routes). Take time into account rather than the distance covered.

A clogged filter may cause serious faults.

Use at high altitudes

Using the vehicle at certain altitudes has an impact on engine performance. The reduction in power output is approximately 10% for naturally-aspirated engines and approximately 5% for turbocharged engines, for each 1000 m of altitude. Furthermore, take into account that the boiling point of water is reduced by 3.5°C per 1000 m of altitude.

Economic driving

To obtain the best performance using your gearbox, and in particular reduced fuel consumption, adhere to the following rules for driving:

- always select the gear ratio that allows you to use the engine at its most efficient speed. It is within this range that the maximum torque is found, offering the lowest fuel consumption;
- select the correct ratio based on the topography of your route;
- remember that **any gear shift will result in increased fuel consumption.**

Turbocharger

Turbocharger faults

Incorrect operation of the turbocharger is noticeable through a lack of engine power output, unusual noise, oil present in the intake manifold or unusual smoke from the exhaust.

In this case, visit the nearest RENAULT TRUCKS garage. No internal work should be performed on the turbocharger.



Installation of one or more heat shields on the turbocharger is essential to prevent any risk of vehicle fire or damage to the surrounding components.



Any operation on the exhaust pipe or its mountings requires tightening to torque. Contact a RENAULT TRUCKS garage.

Parking the vehicle

As with driving, you should always take care when parking the vehicle so as not to endanger other road users, and also to avoid damaging your vehicle.

Short stays (less than ten days)

Make sure that the vehicle is correctly parked (no risk of disturbing the traffic or safety risk for traffic, persons or surrounding facilities, following the highway code).

Avoid parking the vehicle near bends, road junctions or traffic signs where it may obstruct visibility or startle other road users.

Ensure that all electrical systems are switched off or unplugged.

Turn the main power switch to avoid discharging the batteries.

Parking for less than 30 days

Secure the vehicle without using the parking brake (to prevent the linings from sticking). To do this, immobilise the wheels of the vehicle and regularly check the vehicle's stability.

Raise and protect the wiper blades. Make sure you protect the windscreen to avoid damage in the event that the wiper blades suddenly fold down.

Protect plastic, rubber and glass parts from the effects of UV radiation.

Fill the fuel tank to prevent condensation forming.

Ensure the tyre reach is changed regularly (to avoid any flattening of the tyre tread).

Once a week:

Check that there are no traces of oil, coolant or fuel leaks under the vehicle.

Check levels: engine oil, power steering, etc.

Start the engine and run it until the air pressure light goes out. Monitor the indications shown on the display.

Parking for over 30 days

Check the condition of the tyres, including the spare (pressure, impact marks or cracks in the sidewalls, etc).

Check that the air intake vents are not blocked.

Check and if necessary recharge the batteries.

Start the engine and leave it running until the air pressure light goes out. Monitor the indications shown on the display.

Check that all the accessories are functioning properly (air conditioning, heating, windscreen wipers, front/rear signals).

- Move the vehicle:

- 5 to 10 km at a moderate speed allowing the components to warm up as normal. When stopped, check for leaks (hubs, axle head, etc).
- 15 to 20 km at normal speed, up to the maximum speed of the vehicle (while respecting the highway code) to check the behaviour of the vehicle, gear shifting, while taking note of any abnormal noises.

After the checks, if you park the vehicle again, apply the above advice and ensure that the tyres are changed.

Check the lubricating points (hinges, locks, suspension, etc). If necessary, re-lubricate.

In the event of prolonged vehicle immobilisation, the batteries should be regularly monitored - at least every 4 weeks.

If the charge is below the minimum recommended level, you will have to recharge each battery.

If the vehicle is used in when stationary, without starting the engine, pay attention to the power consumption caused by the equipment (tachograph, GPS, radios, etc). More frequent checks will become necessary in this instance.

What is eco-driving?

Eco-driving is a responsible driving behaviour that reduces fuel consumption, reduces wear and tear on your vehicle, lessens driver stress and fatigue and reduces the risk of accidents.

Always bear in mind that energy efficiency should never come before road safety.





All the advice we provide should be applied with the utmost caution, always keeping in mind the highway code and basic safety rules.

Engine and gear utilisation

The appropriate use of your engine and gearbox will save fuel and reduce wear and tear on your vehicle.

Commercial vehicle engines are designed to focus on torque rather than vehicle power. The best performance of your powertrain (engine, gearbox, transmission to the drive wheels) will therefore be provided at even the lowest rpm. Some of the vehicle's engine energy is lost through mechanical friction. This friction, and therefore these losses, increases alongside the speed of the engine. By driving at a lower engine speed, these losses remain limited. This will naturally reduce fuel consumption.

The green zone on your tachometer will show you the rpm range in which your engine performs best.

Your gearbox changes gears for you, always applying the best gear ratio based on the fuel consumption/performance ratio you require.

To save fuel, never exceed the green zone on your tachometer when accelerating in manual mode. Change gear before the engine speed moves beyond this zone.

Vehicle speed management

Always choose the highest gear possible when driving at cruising speed.

The power required to maintain a constant speed is relatively low. As a result, it is perfectly suitable to engage a high gear at low engine speeds. This will save fuel and will not damage the engine in any way, especially if it is properly serviced.

Where possible, you should also try to maintain a constant speed, as changes in speed cause higher fuel consumption, especially when accelerating.

For acceleration, a "soft" driving style is not the most suitable. You should ideally use the accelerator using firm, deliberate actions.

This is because vehicles use up much more fuel while accelerating than when travelling at a more stable speed. The idea is to reach your cruising speed as quickly as possible by pressing the accelerator about three quarters of the way down to give your vehicle a firm acceleration, quickly moving up through the gears and then stabilising your speed.

Then maintain a steady speed using the highest gear possible.

During acceleration, the fuel energy is used to speed up the vehicle. The kinetic energy gained by this acceleration is lost during braking (dissipated as heat in the brakes, which also causes wear). Unnecessary and repeated braking and acceleration should therefore always be avoided. By paying close attention to traffic conditions and the layout of the road ahead of you, you can anticipate any gear changes you may need to make and avoid

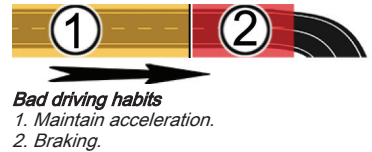
pointlessly burning through your fuel. By releasing the accelerator pedal well before the point where you would otherwise use your brakes, you dissipate kinetic energy gradually, without wearing out your brake pads and without using up fuel unnecessarily.

By driving at as steady a speed as possible, the loss of energy and fuel is likewise kept as low as possible.

One simple rule to avoid what is known as the "accordion effect" of repeatedly speeding up and slowing down is to keep a good distance from the vehicle in front of you.

In urban environments, GPS data has proven that aggressive driving (strong acceleration and braking, running amber and even red lights, etc.) does not save time. Driver stress, wear and tear on the vehicle, danger to other road users and fuel consumption, however, all increase considerably.

Remember that the brake pedal is often very badly used. You are not driving a racing car, so it is neither necessary nor desirable to "slam on the brakes".



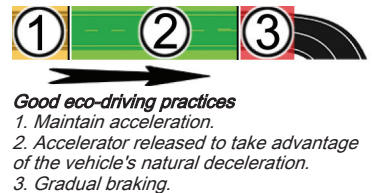
Brakes are primarily an active safety system, not a driving system. They should therefore be used as little as possible! Remember to use your vehicle's engine brake. Here too, the gains are huge, because there is no fuel injection when the engine brake is used. It naturally follows that this causes zero fuel consumption and no wear on the brakes. This driving style also forces greater anticipation of the road ahead, enhancing your safety.

To drive at as steady a speed as possible, it is important to anticipate surrounding traffic to avoid unnecessary braking and accelerating. For instance:

- when approaching traffic lights...
- coming up to cyclists or farm vehicles...
- on a busy motorway or road...

... and for all other traffic situations, this can have a strong influence on the way you drive.

Many situations can already be anticipated by looking a good distance ahead, long before any issue may occur. Anticipation is even more important if you want to take full advantage of your vehicle's cruise control.



Depending on traffic conditions, it may not be possible to drive as fast as the legal speed limit allows. Adapting your speed to the situation can save fuel. In poor traffic conditions, driving more slowly with at a lengthy distance behind the vehicle in front prevents traffic jams and accidents. It is always better to maintain a low but steady speed rather than

constantly trying to close the gap with the vehicle ahead of you. Driving calmly and taking your time (or at least the right amount of time) saves fuel, stress, wear and tear on equipment and increases road safety.

Driving calmly when yours is the only vehicle in sight and on short trips saves fuel. On a 20 km stretch of road, all you save by driving at 90 km/h instead of 80 km/h is 1 minute and 40 seconds. By sticking to 80 km/h, you stand to burn up to 5% less fuel. On top of the money-saving aspect to lowering your speed, it turns out that driving slower not only prevents accidents but also reduces the damage an accident may cause. The braking distance is 10 metres less at 80 km/h than at 90 km/h.

Finally, driving well below the speed limit means that you don't have to keep glancing at your speedometer to make sure you don't creep over the limit. This means you pay more attention to the traffic conditions and you will feel less tired when you stop driving.

Vehicle maintenance

The above rules not only offer good savings in fuel consumption, but also in vehicle maintenance expenses. Maintenance plays a very important role in your energy costs.

While it is well known that a dirty air filter can lead to a drop of over 20% in engine performance (and even cause engines to fail in the case of a punctured air filter), it is less well known that the condition and pressure of your tyres is also a significant factor.

Vehicle maintenance plays an important role in performance, starting with the condition and pressure of the tyres. The lower the tyre pressure, the higher the fuel consumption. It is therefore very important to follow the manufacturer's recommendations (under-inflation = risk of tyre explosion and excessive fuel consumption, over-inflation = excessive wear and risk of explosion if the tyre is defective).

Additionally, improper inflation can lead to wear and tear on the entire running gear, poor handling and general vehicle comfort.

Worn tyres may increase rolling resistance and will not grip well. As a result, you will end up with higher fuel costs while simultaneously putting you at risk.

A well-maintained engine will also perform better. Oil loses its lubricating qualities over time, increasing the internal resistance of the engine, and therefore using more fuel.

Finally, the type of fuel and lubricants used also has its own role to play. Good quality fuel and lubricants will keep your engine, gearbox and axle in good condition and performing well.

Good habits

The aerodynamic profile of the vehicle must be respected. This means that extra items fitted to the vehicle exterior should be kept to a minimum to avoid disrupting the air flows and creating turbulence, acting as parachutes to slow down your truck.

It is also a well-known fact that correctly adjusting your roof deflector (and installing one if your vehicle doesn't have one) will also save you a surprising amount of fuel.

The issue of your windows, however, might not immediately spring to mind. A wide open window at 90km/h will significantly raise your fuel consumption.

Use your air conditioning in moderation also stands to save considerably on your fuel costs. Like in refrigerators, air conditioning is supplied by a compressor and a radiator system. The compressor takes its energy directly from the engine, so you end up burning fuel to cool your cab. You should never allow a difference of more than 10°C between your cab interior and the outside. Not only will you save fuel, but you'll be healthier too!

To round off our advice on thermal comfort, remember that cab heaters burn fuel directly to heat the vehicle's heating system. Every degree you add comes at the cost of increasing your overall vehicle fuel consumption.

Just like in a race, superfluous weight is the enemy. The weight of your vehicle increases the rolling resistance and therefore the effort required from the engine to propel the vehicle forwards. You should therefore take care not to carry unnecessary loads.

Final tips:

Plan your route properly before setting off. Make sure you know your precise point of arrival before you leave. Planning your journey properly allows you to optimise your routes if you have multiple destinations, so you can avoid doubling back on yourself unnecessarily (saving time and fuel).

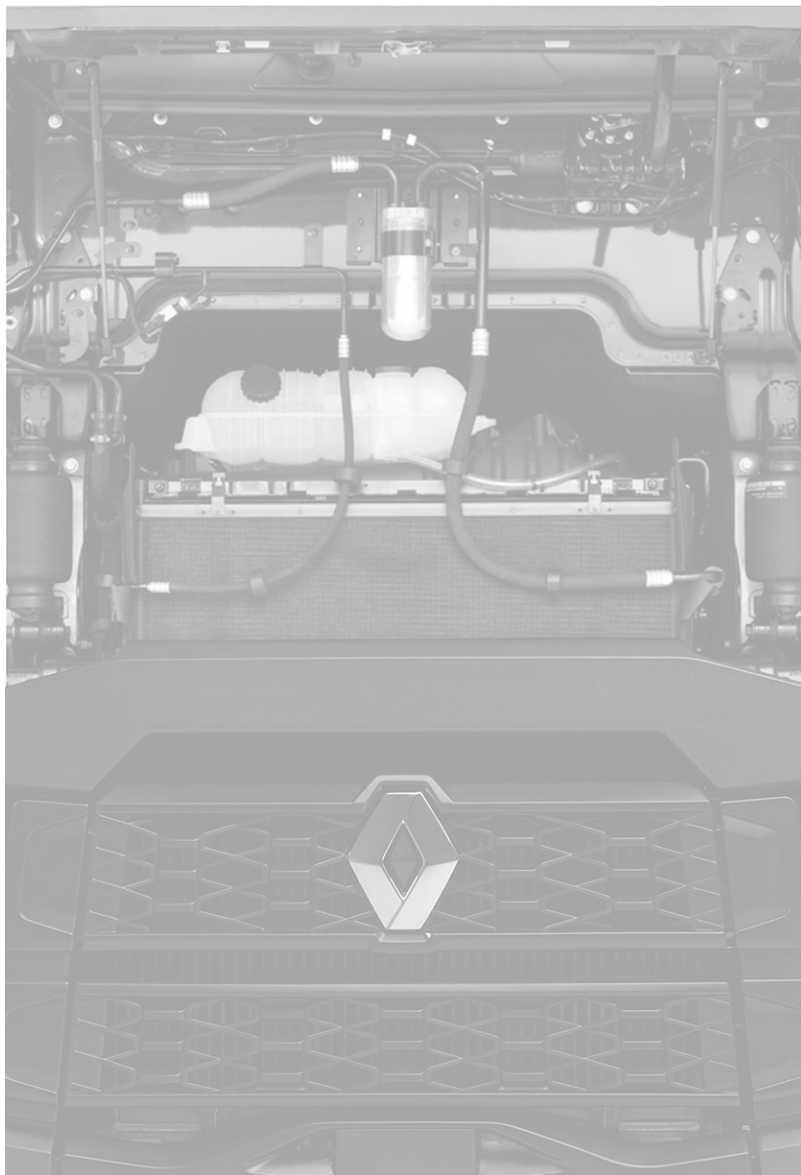
There are plenty of tools available on the Internet to help you pinpoint your destination before you leave. These tools can sometimes save you from having to make tricky manoeuvres on unsuitable roads. Such manoeuvres can waste time as well as fuel. Not to mention the risk of damage to your truck's bodywork.

Keep your vehicle scrupulously clean! Careful cleaning can help you identify leaks or defects that could affect the performance of your vehicle.

Learn how to properly use your vehicle's driver assistance systems. They will be the best solution for optimising your driving and could potentially anticipate obstacles along your route. Let them work as they are designed to. Don't be tempted to speed up when you don't understand why the system is dropping vehicle acceleration.

Finally, it is best not to leave your engine idling. As a general rule, after 30 seconds it is more cost-effective to switch off the engine.

Thinking along similar lines, when starting - even in cold weather - it is preferable to set off as soon as possible by driving slowly to allow the whole drive train to warm up evenly without wasting fuel. Letting your vehicle idle will only heat up the engine and, to a lesser extent, the gearbox. As a result, they will exert full power on axles that are still cold. So in addition to the fuel wasted with your engine running at a standstill, you risk premature wear on your axles.



Daily checks

Daily check

The daily inspection of the truck is important for detecting any faults and to avoid unplanned downtime.

The inspection is optimally performed by carrying out the following points in the cab and then walking around the truck. Start at the driver door, and continue in front of the cab and around the truck.

- Apply the parking brake.
- Switch on the lighting.
- Switch on the hazard warning lights.
- Check for any fault messages.

Pay particular attention to fault messages about the engine oil level and the coolant level.

Before getting into the vehicle

In particular, check:

- That there are no traces of oil, coolant or fuel under the vehicle.
- The tyre pressures.
- The condition of the tyres
- The fluid levels for:
 - the engine
 - power-assisted steering
- The coolant level.
- The screen wash reservoir level.
- Air filter clogging indicator.
- Cab locking.
- Sealing of the components. In the event of a leak, clean the breather pipe. A blocked breather pipe generates pressure inside the crank case and causes leaks.



Taking these checks seriously will help you save fuel, avoid serious damage that could immobilise the vehicle or even cause a serious accident.

Tyres

Tyre pressures.

Refer to the **Maintenance and servicing** section.

Condition of the tyres

Carefully check the condition of each tyre:

- Check the level of wear
- Check the condition of the tyre tread
- Check the condition of the tyre side walls



A tyre that is over- or under-inflated, with rips in the tread, cracks, bulges in the side walls or any other traces of deterioration might lose pressure suddenly and cause a serious accident.

If in doubt, contact your Renault Trucks service point.

Bleeding water from the air tanks

Amongst other things, your vehicle uses compressed air to operate its brake system. An air dryer cartridge removes all moisture from the air circuit to avoid damaging the very sensitive components used in this system. Over time, especially in the case of very high air consumption or malfunction, water will still enter the system. It then accumulates in the tanks and can end up seriously damaging or blocking the brake system.

To avoid the risk of water-related failures, pull the bleed ring (1) for each air tank at least once a day to remove any moisture. Let the air out until you believe it to be dry.



Bleed the air tanks to check for condensation. Excessive water in the tanks can be a sign that the dryer is malfunctioning.

Coolant level

Check the engine coolant level through the transparent wall of the expansion chamber.

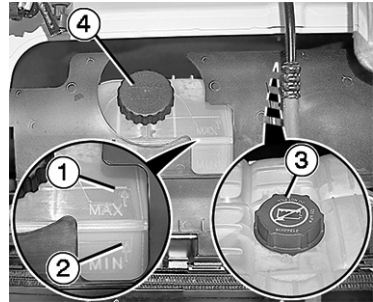
The level must be between the "MIN" (1) and "MAX" (2) marks; top up if necessary.

STOP

THE "PRESSURE-VACUUM" PLUG (3) IS A TARED PLUG TO MAINTAIN A SAFE PRESSURE IN THE COOLING SYSTEM. IT SHOULD NOT BE MOVED.

REMOVE THE FILLER CAP (4) TO TOP UP. CAUTION: NEVER OPEN THIS CAP WHEN THE ENGINE IS HOT, AS LIQUID MAY SPLASH OUT AND CAUSE SERIOUS BURNS.

USE ONLY COOLANT RECOMMENDED BY RENAULT TRUCKS.



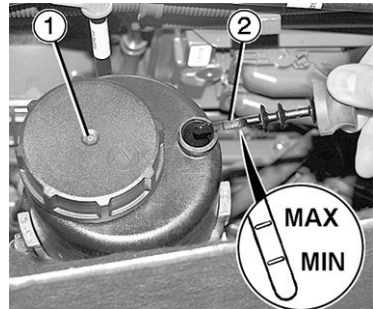
Steering fluid level

Tilt the cab.

Refer to the **Cab tilting** section.

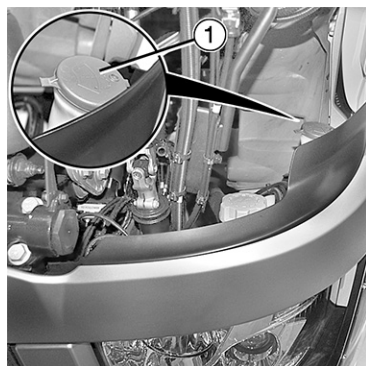
Check the steering fluid level (2).

If necessary, top up the level via filler port (1).



Screen wash level

Check the level in reservoir (1) regularly. Top up if necessary. To avoid lime scale formation and the blockage of the pipes, it you are recommended to add screen wash additive (RENAULT TRUCKS). This product also works as an anti-freeze agent. It can be maintained throughout the year.



The windscreen and headlight washer container can hold around 10 litres.

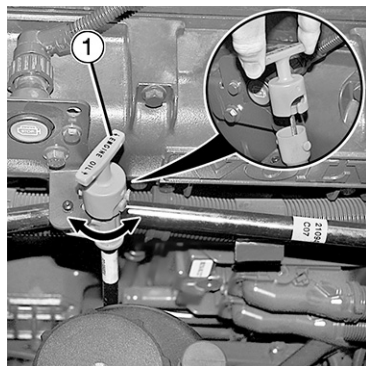
Engine oil level check

Tilt the cab.

Check the oil level using dipstick (1).



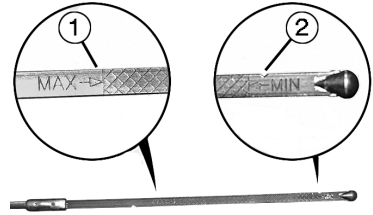
Always check the level on horizontal ground, 2 hours after stopping the engine.



Daily checks

Reading the oil dipstick:

1. Maximum level
2. Minimum level

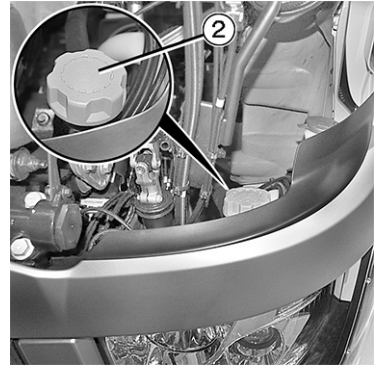


The quantity of engine oil between the minimum and maximum levels is approximately 6 litres.

Top up the level if necessary.

Filler cap (2).

You have the option of topping up the engine oil level via filler cap (2) without tilting the cab, following the instructions on the multifunction information display .



Coolant temperature indicator

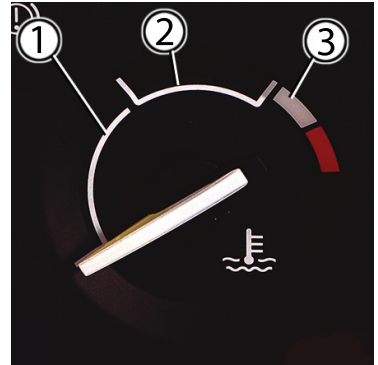
The coolant temperature indicator comprises 3 zones.

Zone 1: cold zone when starting the engine.

Zone 2: normal engine operating temperature zone between 80/100°C.

Zone 3: coolant overheating zone; engine torque will be reduced.

Contact a RENAULT TRUCKS garage.

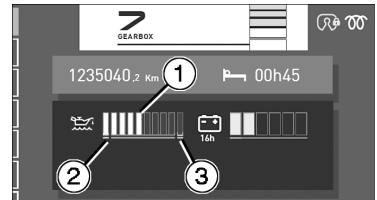


Engine oil level gauge

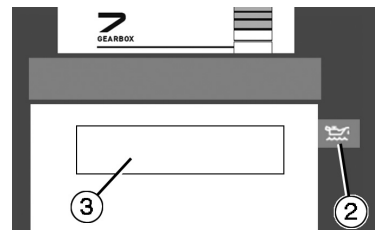
The level should be read on level ground after the engine has been stopped for a prolonged period.

When the ignition is switched on:

- Bar graph (1) indicates the oil level.
- "Min. level" zone (2).
- "Max. level" zone (3).

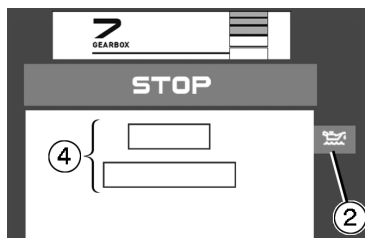


Indicator pictogram (2) and an associated message (3) inform you that the oil level is too low.



If the level is really too low, indicator pictogram (2) and an associated message (4) inform you that the oil level is insufficient and that there is a risk of damaging the engine.

It is essential to stop the vehicle and top up the oil level.



In the event of fault on oil level indicator (1), the level check is not available on the multifunction information display.

Check the level on the gauge and go to the nearest RENAULT TRUCKS garage.



Air pressure indicator in braking circuit

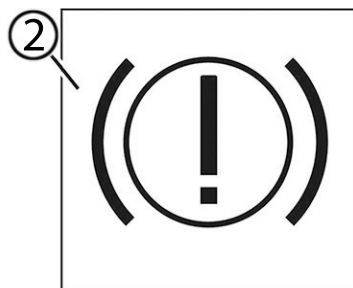
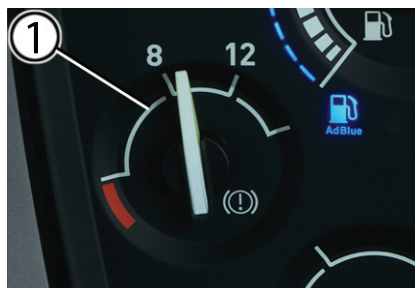
Indicator (1) provides information about the air pressure in the braking circuit.

When driving, if warning air pressure pictogram (4) and the STOP warning light are displayed, you must stop the vehicle and contact the nearest RENAULT TRUCKS garage.

After a prolonged stop, it is possible for the air pressure to drop below a limit not allowing the vehicle to set off, start the vehicle to pressurize the air circuit so that warning pictogram (4) is extinguished.

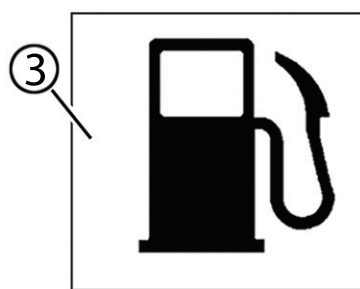


The engine speed may increase automatically to reduce the reservoir inflation time. A brief press of the accelerator pedal or the engagement of a gear ratio will stop the function and the engine speed will fall back to the idle speed value.

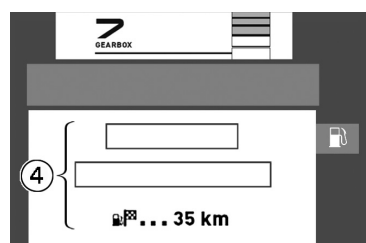


Fuel level indicator

Indicator (1) informs you of the fuel level. When the sender unit reaches the low level, reserve warning light (2) illuminates and warning pictogram (3) is displayed on the multifunction information display.



At this moment, an information message (4) on the multifunction information display indicates the distance covered since the illumination of the fuel reserve light.



AdBlue level indicator

Daily checks



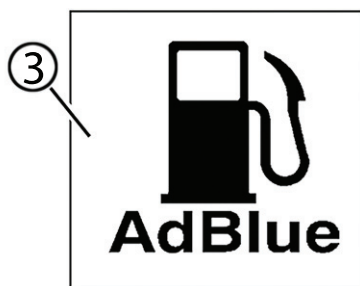
The use of AdBlue is essential to the correct operation of the vehicle and for abiding by legislation in force.

Not using AdBlue may be considered an offence.

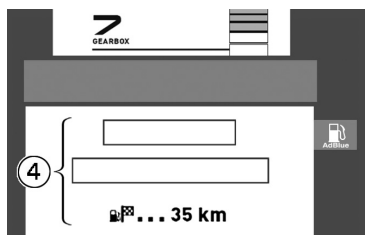


After filling the AdBlue tank subsequent to a torque reduction phase due to the level being too low, switch on the ignition, wait for 15 seconds (vehicle stationary) until torque reduction is inhibited.

Indicator (1) provides information on the AdBlue level. As the AdBlue level decreases, the segment graduations disappear. When the final graduation disappears, reserve warning light (2) illuminates and warning pictogram (3) is displayed on the multifunction information display.

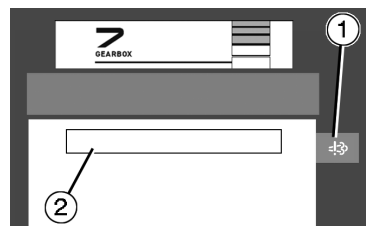


At this moment, an information message (4) on the multifunction information display indicates the distance covered since the illumination of the fuel reserve light.



If you use your vehicle until remaining AdBlue is exhausted, warning pictogram (1) and a related message (2) telling you that the tank is empty are displayed on the multifunction information display.

It is essential to fill the AdBlue tank as soon as possible

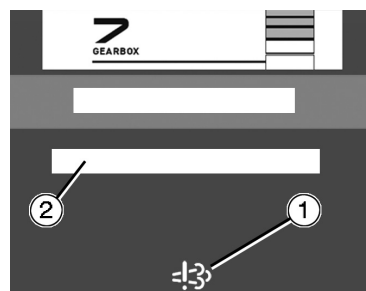


In the event of using the vehicle with the AdBlue tank empty:

- the "Information" light on the instrument panel illuminates,
- warning pictogram (1) and an associated message (2) appear on the multifunction display.

If the system detects insufficient pollution control:

- warning pictogram (1) and a related message (2) appear on the multifunction information display telling you that the engine is no longer being cleaned up and that an engine torque reduction phase will be applied at the next engine stop.



When the torque reduction information is displayed, this means that the fault will be stored and become non-deletable the next time the engine is stopped. It can be consulted at any time by the police force.



Start-up and driving

Immobilizer

Your Renault Trucks vehicle has an immobilizer function to stop theft.

The vehicle is delivered with coded ignition keys paired up to the electronic anti-theft device.

Starter ignition switch with electronic immobiliser.

Master switch triggered or vehicle taken out of low consumption mode, bring the key into the cab, then press the START/STOP button.

The system recognises the key code and authorises the engine start.

If the transponder malfunctions, a message appears on the multifunction display; the vehicle cannot be started.



STOP

ANY UNAUTHORISED OPERATION ON THE ELECTRONIC IMMOBILISER SYSTEM WILL CAUSE MALFUNCTIONS, MAKING IT DANGEROUS TO OPERATE THE VEHICLE.

START AND STOP button operation

Your vehicle has a START/STOP button that controls the stop/living, accessories and contact modes and enables the engine to be started/stopped.

It is only activated when the remote control is detected in the cab, with the master switch in the ON position.



If the vehicle cannot detect the remote control or if it is not identified, a message will be displayed on the instrument panel.

Check that the vehicle key is present in the cab or replace the key battery.

If the fault persists, contact a RENAULT TRUCKS service point.

The button lights up white when the door opens for more convenience. It goes out approximately 30 seconds after you close the door.

START/STOP button positions

Stop/Living position:

Press the remote control button to control the vehicle lock and activate Parking Mode. This mode enables the controls necessary for Living Mode to receive power (windows, power sockets, interior lighting, etc).

Accessory mode:

"Comfort accessories power": engine stopped, steering not locked. This mode provides power to the additional comfort accessories (radio, fan)

Contact mode:

The vehicle is ready to be started.

Start mode:

Engine start control.

Switching between the different modes:

You can only switch between modes if the remote control is detected inside the cab. Mode switching is performed by pressing briefly on the START/STOP button.

Each short press after the stop mode switches to accessory mode, then contact mode, then stop mode.

The ignition can still be switched off without having the remote control on board.

Engine start-up

With the remote control onboard, you can start the engine directly from any mode by:

- pressing down the brake pedal and pressing the START/STOP button (keep your foot on the brake until the vehicle starts)
- a long press (over 3 seconds) on the START/STOP button without using the brake pedal.



The procedure will be stopped if the brake pedal is released before the engine starts.

From stop position:

One short press on the START/STOP button with the brake pedal released switches the vehicle to "accessory" mode.

From accessory mode:

To stop mode:

Before starting

Short press on the START/STOP button, parking brake not activated and brake pedal raised.

Or

Short press on the START/STOP button and accessory mode activated for over 15 minutes.

To contact mode:

Accessory Mode => Contact Mode:

Short press on the START/STOP button, parking brake activated, brake pedal raised and accessory mode activated for less than 15 minutes.

From contact mode:

To stop position:

Short press on the START/STOP button, brake pedal raised.

Engine running:

To stop position:

Short press on the START/STOP button when the vehicle is travelling at less than 7 km/h.

Or

Press and hold.

To contact mode:

- If the engine stalls.

If the engine is switched off due to body builder casing.

When the engine stays idling beyond the length of the nominal automatic stop time.

Engine shut-off above 7 km/h

A long press (over 3 seconds) is required to shut off the engine above 7 km/h. In this case, the vehicle will become immobilised with the automotive activation of the parking brake.

If you do not press the button for long enough, a window will ask you to try again.



By giving a long press on the Start and Stop button while the vehicle is moving, if the speed does not drop below 7Km/h within 40 seconds, the parking brake will not be applied automatically.



The vehicle will automatically switch to stop position if the remote control is no longer in the detection area:

After 10 minutes in contact mode.

After 1 hour in accessory mode.

A door opening will reset the timer.

The START/STOP button will be white in stop position.

In accessory or contact mode or with the engine running, the START/STOP button will display orange backlighting. The button brightness is controlled by the lighting level in the cab.



When the starting procedure is engaged, a message will be displayed on the instrument panel if the engine cannot be started, giving the reason for this.

Please contact a RENAULT TRUCKS service point if you have any questions.

Display test

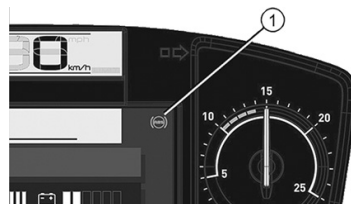
When starting your vehicle, the information display exchanges information with you.

When the ignition is switched on, a self-test takes place for 4 seconds. This test checks all the instrument panel indicators for correct operation.

Statutory test display

After the display test, the "statutory test" mode is activated.

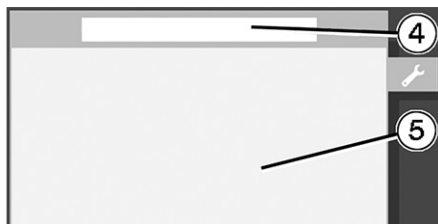
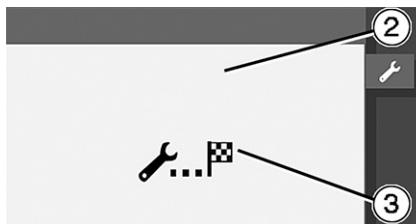
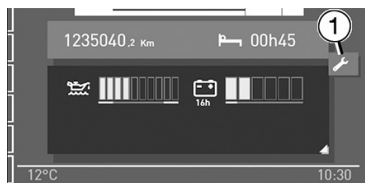
The pictogram for the function to be checked (1) ("ABS" braking system) is displayed for approximately 5 seconds.



Maintenance display

Maintenance warning (1) light may be displayed in 2 possible cases:

- in pre-alert, warning pictogram (1) is displayed for around 30 seconds after the regulatory test;
 - in alert, warning pictogram (1) is displayed and illuminated in orange.
- In the case of a pre-alert, by confirming, the information on the next maintenance (2) and on the remaining mileage, hours or date (3) by which the maintenance must be carried out are displayed;
 - For an alert, when validating it service information (4) is displayed, stating that the service must be carried out (5). In this case, visit the nearest RENAULT TRUCKS garage to carry out the service.



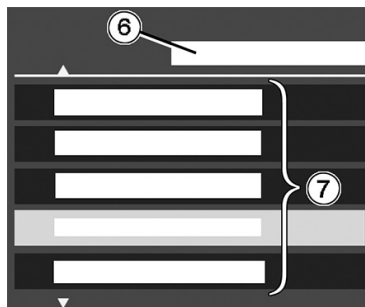
Maintenance screen key

Following an alert, look up the component in question in the maintenance menu on the multifunction information display.

You can access the maintenance details (6). You may consult the future and expired maintenance operations for components (7) classified in order of priority.

After data retrieval, you view the status of the maintenance concerned depending on its type and status.

For some maintenances, you have the option of resetting the maintenance indicator.



Accumulator battery management

The system provides information about how the accumulator batteries are behaving in order to prolong their service life.

To use the system, the favourites page must be selected beforehand, refer to the **Multifunction information display** section.

Voltmeter/ammeter indicator

The voltmeter/ammeter indicator informs you of the accumulator battery voltage and current.

Description of 2 indicator areas

(1) Ammeter zone:

- + The accumulator batteries are being charged.
- The accumulator batteries are being discharged.

When the accumulator batteries are charged completely, the accumulator battery sensor regulates the voltage to prevent them from being overcharged.

In this situation, the voltmeter/ammeter provides an indication of between approximately 0 A and 5 A.

(2) Voltmeter zone:

The value indicates the voltage of the accumulator batteries and may vary between 26.5 V and 28.6 V while you are driving.

- Accumulator battery charge indicator

The charge indicator provides information about the accumulator battery charge status.

Description of 2 indicator areas

(1) Red zone: representative of the energy reserve required for starting.

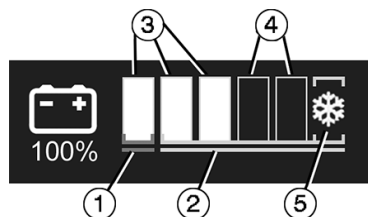
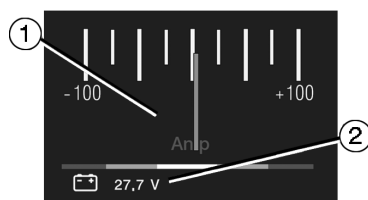
(2) Grey zone: representative of the accumulator battery maximum charge level.

When the accumulator batteries are fully charged the 100% message is displayed.

White squares (3) indicate the current charge level.

Empty squares (4) indicate the charge level that can be recharged.

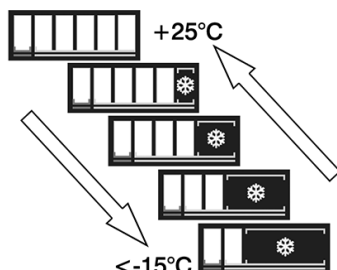
Snowflake (5) indicates the charge capacity temporarily lost in cold temperatures.



Before starting

When the temperature drops, the maximum charge capacity of the accumulator batteries also decreases.

The snowflake represents the loss of maximum charge capacity. The charge capacity will return when the temperature increases.



Display of warnings

The accumulator battery management system monitors the parameters for the correct operation of the accumulator batteries and returns the following warnings:

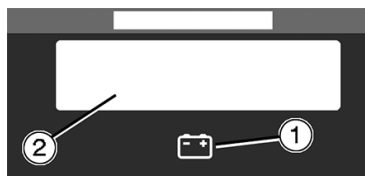
- on the charge status,
- on the state of health,
- on the temperature of the accumulator batteries,
- on the alternator.

Accumulator battery charge status warning

The accumulator battery charge status has two warnings:

1st Alert

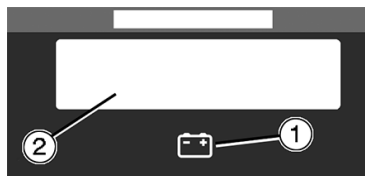
When the vehicle ignition is switched on or off, warning pictogram (1) and an associated message (2) are displayed on the multifunction information display informing you that the accumulator battery charge status is at a low level (approximately 50%) and this could impact on their service life length.



2nd Alert

With the vehicle stationary, if the accumulator battery charge status is at too low a level, an audible warning sounds to alert you.

Warning pictogram (1) and an associated message (2) are displayed on the multifunction information display inform you that the accumulator batteries have reached a critical level and that you must start the vehicle immediately.



The accumulator battery charge indicator now indicates no more than one red square (3).



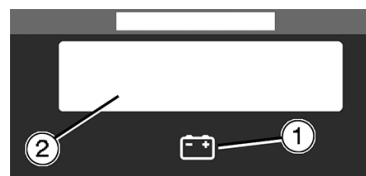
Accumulator battery health status warning

When the accumulator battery state of health is reduced, warning pictogram (1) and an associated message (2) are displayed on the multifunction information display informing you that they need to be replaced.

This warning is configured to warn of any faults, due to the accumulator batteries when it is cold ($< 0^{\circ}\text{C}$).

When this warning is displayed, this means that in very cold weather there is a risk of not being able to start the vehicle.

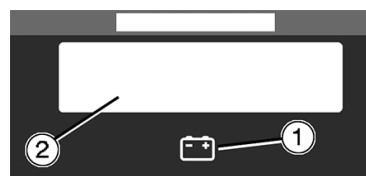
This warning can be considered as advisory to avoid an immobilising fault and thus to schedule the replacement of the accumulator batteries.



Accumulator battery temperature warning

In extreme temperatures with the engine switched off and with warning pictogram (1) and associated message (2) displayed on the multifunction information display, this means that the temperature of the accumulator batteries is very low and that there is a significant risk of them freezing.

To avoid an immobilising fault, we recommend that you start the vehicle.



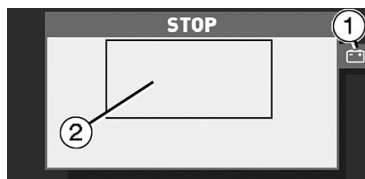
The accumulator battery charge indicator only indicates snowflake (3).



Alternator warning

When warning pictogram (1) and associated message (2) are displayed on the multifunction information display when the engine is started, this means that there is a fault on the alternator.

Visit your nearest RENAULT TRUCKS service centre.



Checking the operation of the air filter

Amongst other things, your vehicle uses compressed air to operate its brake system. An air dryer cartridge removes all moisture from the air circuit to avoid damaging the very sensitive components used in this system. Over time, especially in the case of very high air consumption or malfunction, water will still enter the system. It then accumulates in the tanks and can end up seriously damaging or blocking the brake system.

It is vital that the air stored in the tanks should be as dry as possible.

Check the air tanks for water each time before you set off, or if an air system warning message appears on the display.

To avoid the risk of water-related failures, pull the bleed ring (1) for each air tank at least once a day to remove any moisture. Let the air out until you believe it to be dry.



Bleed the air tanks to check for condensation. Excessive water in the tanks can be a sign that the dryer is malfunctioning.



It's normal to find a little moisture in the fuel tanks, especially if you drive in humid areas. But if you find a lot of water, or it reappears too quickly in one of the air tanks, you should go to a Renault Trucks garage to have the system checked.

Engine start-up

Your Renault Truck has functions and specific features that you should know about to be able to start the engine.

The vehicle key is no longer used to activate the starting system. The key simply has to be present inside the cab. Always keep it with you.

The vehicle is started by pressing the START/STOP button when the key is inside the cab.

If the vehicle encounters issues trying to detect the key, place it on the detection aerial (1) under the Start and Stop button, and replace the remote control battery as soon as possible (see locking section, or go to the nearest Renault Trucks garage).



IN SOME CASES, THE KEY MAY BE DETECTED BY THE VEHICLE EVEN IF IT IS OUTSIDE LESS THAN ONE METRE FROM THE CAB.

BE CAREFUL, ESPECIALLY WHEN YOU WALK IN FRONT OF THE VEHICLE OR IF YOU ACCESS THE WINDSCREEN AREA - RISK OF UNINTENTIONALLY STARTING UP THE WINDSCREEN WIPER SYSTEM OR THE ENGINE.

Loss of synchronisation

If the remote control (1) loses synchronisation, place it under the start & stop button (2), then press the start & stop button (2) for three seconds.



Ensure that the parking brake is engaged.

Ensure that the gearbox is in neutral.

START/STOP button operation

Key in the cab:

Press the START/STOP button down for more than 3 seconds.

or

Press the START/STOP button for less than 3 seconds while pressing down on the brake pedal.



Temperatures below 0°C: With the ignition switched on, wait for the warning light (5) to go out, then press the START/STOP button to activate the starter motor and release the button once the engine starts.

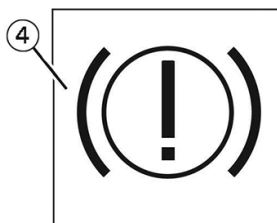
In all cases, engine speed varies depending on engine temperature.



The use of "Start pilote" type products (ether) for starting the engine is strictly forbidden (serious risk of spontaneous combustion or explosion).

Do not set off until:

- brake air pressure warning pictogram (4) goes out and the braking functions are available;
- when the parking brake is in the road position, indicator pictogram Z disappears.



Check that there is no fault warning pictogram present on the multifunction information display.

The symbol "N" (1) indicates that the gearbox is in neutral.



Fast idling device

The engine idling speed can be changed, such as in the case of vibration, or to use a body builder function.

Depending on your vehicle's equipment

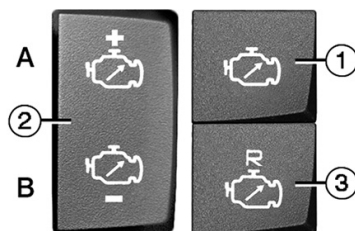
This device controls the engine idle speed, with the vehicle stationary.

Use

With the parking brake applied and gearbox in neutral, press control (1). To vary the engine idle speed, use control (2).

Pressing on control (2) (+ or -) stores the current speed when the accelerator pedal is depressed.

Release the accelerator pedal.



After activating the function by pressing on control (1), moving control (2) to A stores the current value in memory.

To fine tune the speed:

- move control (2) to A to increase the speed progressively or press on A on control (2) to increase the speed in increments;
- move control (2) to B to decrease the speed progressively or press on B on control (2) to decrease the speed in increments.

Selecting control (1) deactivates the function.



The deactivation conditions for the function may be configured. Contact a RENAULT TRUCKS garage who will be able to modify the deactivation conditions.

If the engine speed was selected earlier, press control (4) to return to the nominal speed of 900 rpm automatically.

Geolocation

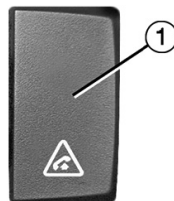
If your vehicle breaks down, you can be geolocated by this system, through the 24/7 breakdown assistance service.

Operations

If your vehicle is immobilised, contact the 24/7 breakdown assistance service. **Tel: 00 800 1234 24 24.**

After the usual formalities, you will be asked to press the switch (1).

Switch (1) will light up orange for 1 to 3 minutes during the search for your location.



Once your vehicle has been located, switch (1) is no longer lit and the operator confirms your location to you.

The 24/7 breakdown assistance service contacts the RENAULT TRUCKS garage closest to your location to provide you with assistance.

Hydraulic power-assisted steering

Your vehicle's steering is hydraulically assisted to limit the force required to drive the vehicle and improve driving precision.

However, when the engine is at a standstill or when you press the brakes, you might put the system under heavy constraints, which are at best unpleasant and ineffective, but at worst might damage the steering system.



If the steering requires a lot of effort, do not force it!

If this happens,

- check that the vehicle is in good working order (engine running, system working).
- Safety conditions permitting, release the brakes.

If the problem remains or if in doubt, contact your Renault Trucks dealer.

In no event must hydraulic components be removed or their initial setting modified. This work should be entrusted to a RENAULT TRUCKS garage.

The hydraulic system can only function correctly if it is perfectly clean. The greatest precautions must be taken on this matter when carrying out the above operations.



When the engine is stopped, the hydraulic power assistance is no longer operational, the force required to turn the steering wheel is significant.

If the steering becomes heavy while driving, stop the vehicle and determine the cause.

If any fault is detected, stop the vehicle and determine the cause.

- Check the level of the fluid in the reservoir.
- Check for any leaks on the hose connections or on the pipes; if there are, repair the leaks if possible (retighten connections or replace hoses).

Refill the reservoir with clean fluid of the recommended grade. Restart the engine and ensure that the pump is operating normally, perform several manoeuvres at low speed and at low engine speeds.

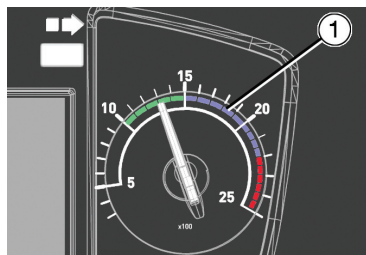
If the steering is still heavy, or if there is still doubt whether the pump is operating normally, have the assembly inspected at a RENAULT TRUCKS garage.

Operating speed

The tachometer helps you to use the engine as efficiently as possible.

Always select the gear ratio that allows you to use the engine at its most efficient engine speed, green sector on the engine speed indicator (1) of the tachometer.

When using retarder(s), a blue sector is displayed on engine speed indicator (1) on the tachometer. This blue sector indicates the maximum efficiency band of the retarder(s).

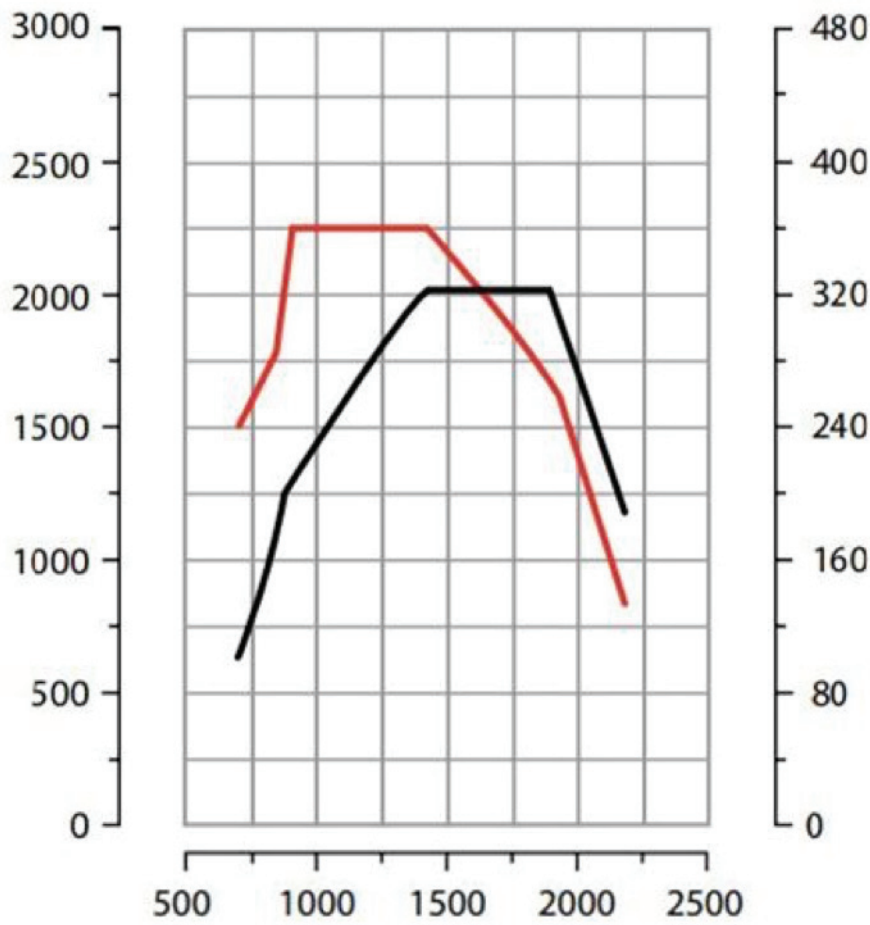


When the engine speed approaches within 300 rpm of its maximum speed, a red sector is displayed on the engine speed counter (1) of the tachometer.

Never let the engine speed reach the red sector.

Power and engine torque curves

The torque or power values may vary slightly depending on your vehicle model.



Cruise control and speed limiter

Cruise control helps to maintain a steady speed, resulting in a more comfortable driving experience and lower fuel consumption.



Do not use cruise control in hilly terrain, heavy traffic or on slippery road surfaces.

STOP

BEFORE BEGINNING TO DESCEND A STEEP GRADIENT, SET THE CRUISE CONTROL SPEED SETTING TO A SUITABLE SPEED TO ENSURE THAT THE VEHICLE DOES NOT EXCEED THE LEGAL SPEED LIMIT IN FORCE.

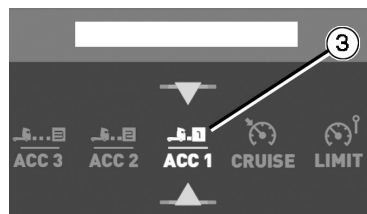
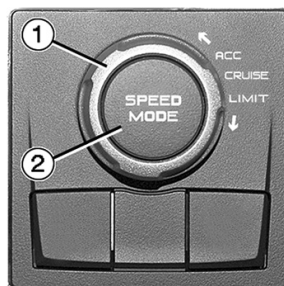
Selection of regulation mode

This function has 3 modes:

- Adaptive Cruise Control mode: beyond 30 km/h, depending on the road profile, this mode allows you to travel at the chosen stabilised speed without using the accelerator pedal while helping to maintain the safety distance from the vehicle in front of you. See "**Adaptive cruise control**" chapter.
- Cruise control "Cruise" mode: above 30 km/h, depending on the road profile, this mode lets you drive at the stabilized road speed required without using the accelerator pedal.
- Speed limiter mode: this mode serves to prevent exceeding a driving speed that you have chosen.

When you want to select the "Cruise" mode:

- turn control (1) anti-clockwise to select the adaptive cruise control function (3) automatically;

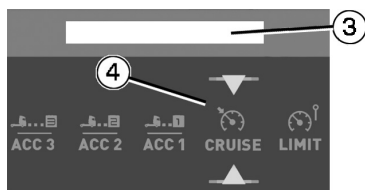
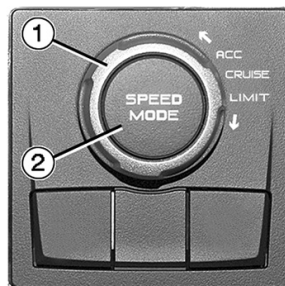


On the speed information display, dashes (1) are displayed to indicate that cruise control mode has been selected and is waiting for a cruising set speed to be entered.



Selecting speed limiter mode

- Turn control (1) clockwise to select "Limit" mode; "Speed mode" indicator pictogram (2) is displayed in orange. The information concerned (3) and the indicator pictogram (4) are displayed for a few seconds on the multifunction information display.



On the speed information display, dashes (1) are displayed to indicate that limiter mode is active and is waiting for a limitation set speed to be entered.



To find out how to use the speed limiter mode after having activated it, please refer to the **Speed limiter mode** chapter

Adjustment of regulation set speed in cruise control mode

Once the regulation mode has been selected, take the vehicle to the speed required using the accelerator pedal, the retarder control or the service brake.

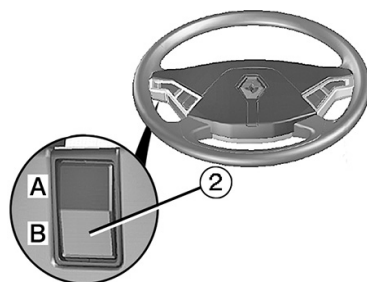
To activate the cruise control "Cruise" mode with current speed (1) as the setpoint, press on one of the positions "A" or "B" of control (2) located under the steering wheel.

To adjust your cruising speed:

- a short press of control (2) in position "A" increases the set speed by 1 km/h. Pressing and holding control (2) in position "A" increases the set speed in 5 km/h increments.



- a short press of control (2) in position "B" decreases the set speed by 1 km/h. Pressing and holding control (2) in position "B" decreases the set speed in 5 km/h increments.



After activating the cruise control "Cruise" mode, warning pictogram (1) and the set speed (2) stored in memory appear on the speed information display.



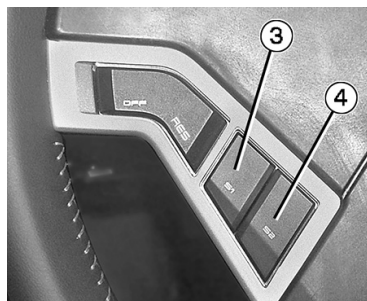
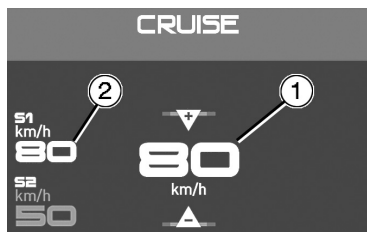
Use of cruising setpoint speeds stored in memory

This function has 2 predefined set speeds in "S1" and "S2" which can be activated quickly and may be customized.

A short press on control (3) or (4) located under the steering wheel quickly activates set speeds "S1" or "S2".

To customize set speeds "S1" or "S2", adjust set speed (1) to the value required and store it in memory with a long press on control (3) or (4) located on the steering wheel.

The favourite set speed "S1" or "S2" is updated and an audible signal sounds as confirmation.



Activation of an "S1" or "S2" set speed may result in sudden acceleration. Ensure that the traffic conditions are suitable.

Exceeding the cruising setpoint speed

It is possible at any moment to exceed set speed (1).
To do so, depress the accelerator pedal.

During the time the speed is exceeded, set speed (1) flashes on the speed information display.



When you release the accelerator pedal, the cruise control function is resumed automatically.



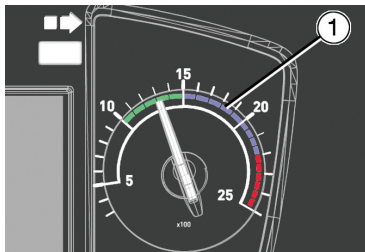
A press on the accelerator pedal for more than 3 minute(s) automatically deactivates the cruise control mode.

Maintaining the cruising setpoint speed

When going downhill, if necessary, the cruise control automatically controls the various retarders to maintain the speed within 3 km/h above the set speed stored in memory.

After 45 seconds, the vehicle speed is returned to the legal speed if the power of the various retarders so permits.

A blue sector appears in rev counter zone (1) to indicate the engine speed at which retarder efficiency is optimal.



If the retarders cannot maintain set speed (1), the speed flashes on the speed information display; it is necessary to use the brakes.



Maintaining the cruising setpoint speed

If the exhaust brake cannot maintain the set speed (1), the speed flashes on the speed information display; it is necessary to use the brakes.

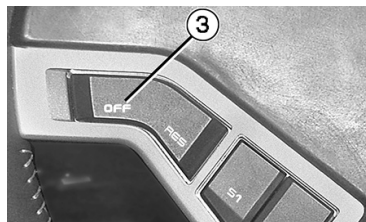


In this case it is recommended to memorize a lower speed and/or to downshift.

Cruise control function standby

The function is interrupted, indicator pictogram (1) is extinguished, memorised set speed (2) remains displayed if:

- you press control (3) on the steering wheel;
- vehicle speed is less than 15 km/h;
- you operate the brake pedal or the retarder control.

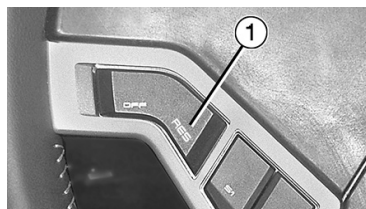


The cruise control is suspended when one of the functions "ABS", "ASR", "EBS" or "ESC" is engaged.

Recalling the cruising setpoint speed

If a set speed (1) is stored in memory on the speed information display, it is possible to recall it after you have ensured that the traffic conditions are suitable.

- Press control (1) located on the steering wheel; set speed (2) appears for a few seconds on the multifunction information display .

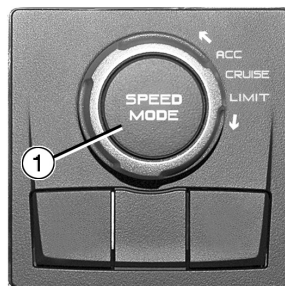


"Cruise" indicator pictogram (1) reappears in addition to set speed (2).



Deactivating the cruise control mode

To deactivate the cruise control mode, press control (1); the indicator pictogram "Speed mode" is no longer displayed.

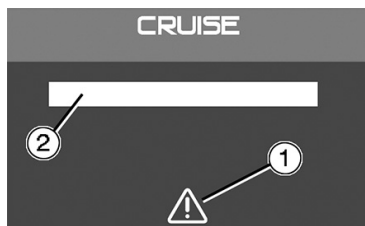


Indicator pictogram (1) and memorised cruising set speed (2) disappear from the speed information display.



Fault present on cruise control mode

In the event of a fault on the cruise control mode, warning (1) and a related message (2) appear on the multifunction information display; go to a RENAULT TRUCKS garage.



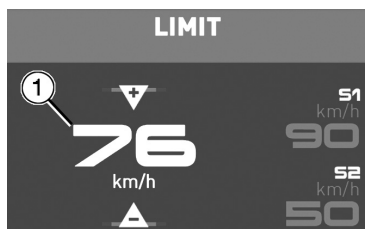
Speed limiter mode

Before activating the speed limiter mode, select the speed limiter mode.

Refer to the "Selection of speed limiter mode" chapter

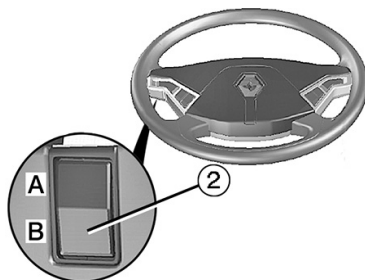
Activating the mode and adjusting the limitation setpoint speed

To activate the "Limit" mode with current speed (1) as the setpoint, press on one of the positions "A" or "B" of control (2) located under the steering wheel.



To adjust your limitation speed:

- a short press of control (2) in position "A" increases the set speed by 2 km/h. Pressing and holding control (2) in position "A" increases the set speed in 5 km/h increments.
- a short press on control (2) in position "B" reduces the set speed by 2 km/h. Pressing and holding control (2) in position "B" reduces the set speed in increments of 5 km/h.



After activating "Limit" mode, indicator pictogram (1) and memorised set speed (2) appear on the speed information display.



When a set speed (2) is stored in memory and as long as this speed is not reached, driving remains similar to driving before the activation of the speed limiter function.

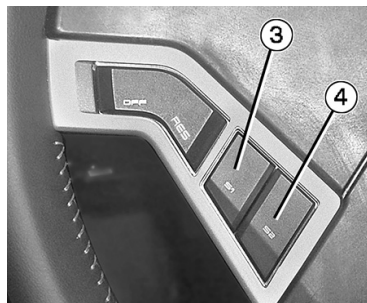
As soon as you reach the setpoint speed, any action on the accelerator pedal will not allow this speed to be exceeded except in case of need.

Refer to the **"Exceeding the cruising setpoint speed"** chapter

Use of limitation setpoint speeds stored in memory

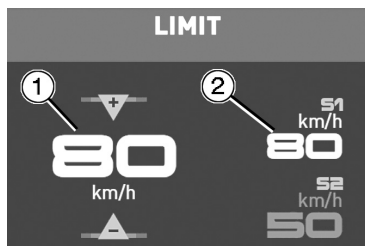
This function has 2 predefined set speeds in "S1" and "S2" which can be activated quickly and may be customized.

A short press on control (3) or (4) located under the steering wheel quickly activates set speeds "S1" or "S2".



To customize set speeds "S1" or "S2", adjust set speed (1) to the value required and store it in memory with a long press on control (3) or (4) located on the steering wheel.

The favourite set speed "S1" or "S2" is updated and an audible signal sounds as confirmation.



When the speed limiter function is first activated after start-up, in the event that the current speed is greater than set speed "S1" or "S2", the set speed or the "limit set speed exceeded" mode is active and the limitation only becomes effective after slowing down to below the set speed.

Exceeding the limitation setpoint speed

At any time, it is possible to exceed the setpoint speed; to do this, depress the accelerator pedal fully (kick down function).

During the time the speed is exceeded, set speed (1) flashes on the speed information display.

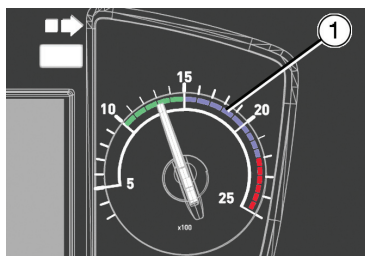
When you release the accelerator pedal, speed limiter mode is resumed automatically as soon as the speed is less than the setpoint speed stored in memory (1).



Maintaining the limitation setpoint speed

When going downhill, if necessary, the speed limiter automatically controls the various retarders to maintain the speed 2 km/h above the set speed stored in the memory.

A blue sector appears in rev counter zone (1) to indicate the engine speed at which retarder efficiency is optimal.



If the retarders cannot maintain set speed (1), the speed flashes on the speed information display; it is necessary to use the brakes.



Maintaining the limitation setpoint speed

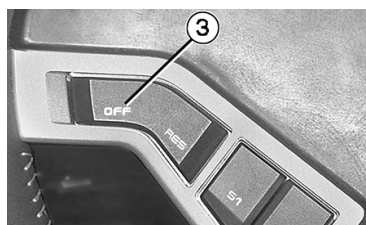
If the exhaust brake cannot maintain the set speed (1), the speed flashes on the speed information display; it is necessary to use the brakes.



In this case it is recommended to memorize a lower speed and/or to downshift.

Speed limiter function standby

The function is suspended, indicator pictogram (1) is no longer displayed, memorised set speed (2) remains displayed if you press control (3) on the steering wheel.

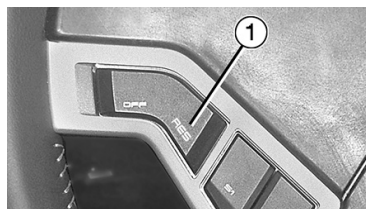


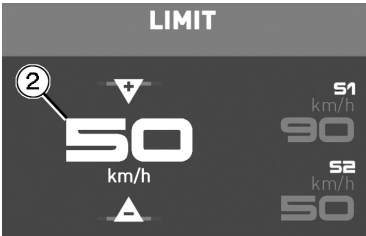
Recalling the limitation setpoint speed

If a set speed (1) is stored in memory on the speed information display, it is possible to recall it.



- Press control (1) located on the steering wheel; set speed (2) appears for a few seconds on the multifunction information display .



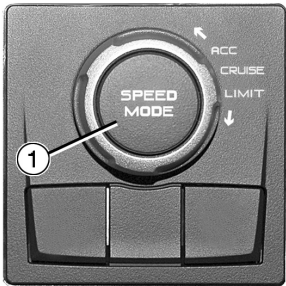


The "Limit" warning pictogram (1) reappears in addition to the set speed (2).



Deactivating the speed limiter mode

To deactivate the speed limiter mode, press control(1), the "Speed mode" indicator pictogram is no longer displayed.

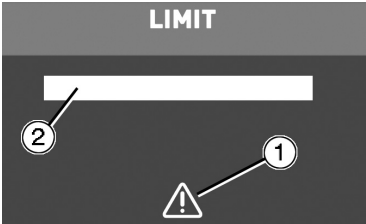


Warning pictogram and the limitation setpoint speed stored in memory disappear from the speed information display.



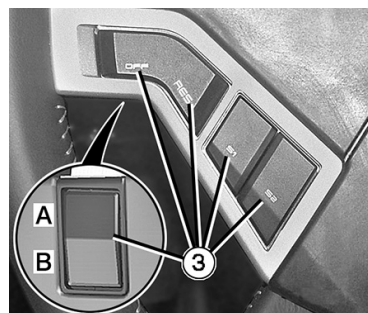
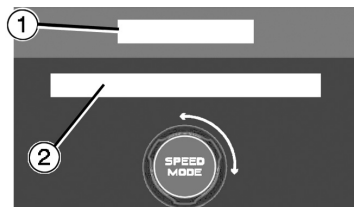
Fault present on speed limiter mode

In the event of a fault on the speed limiter mode, warning (1) and a related message (2) appear on the multifunction information display; go to a RENAULT TRUCKS garage.



Use of controls with no mode selected

In the event of inadvertently pressing on one of the controls (3) on the steering wheel, the message "Speed Mode" (1) appears on the multifunction information display with a message (2) inviting you to select one of the modes.



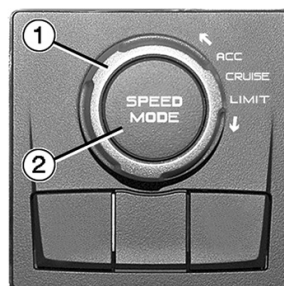
Adaptive cruise control

Selection of regulation mode

This function allows the vehicle to be driven at a stabilised speed and automatically assists the driver to maintain a safe distance from the vehicle in front. If there is no vehicle in front, the "ACC" adaptive cruise control mode functions in the same way as the "CRUISE" cruise control mode

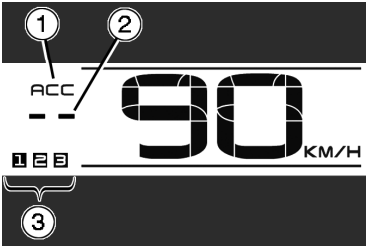
You can select from 3 "ACC" modes, each with a predefined distance setting. The distance settings increase in length from "ACC1" mode.

- Turn control (1) anti-clockwise to select the required "ACC" mode; "Speed mode" indicator pictogram (2) is displayed in green. The information concerned (3) and indicator pictogram (4) are displayed for 5 seconds on the multifunction information display.





On the speed information display, "ACC" indicator pictogram (1) and dashes (2) are displayed to indicate that adaptive cruise control mode has been selected and is waiting for a cruising set speed to be entered. Indicator pictograms 1/2/3 located in (3) are displayed in the selected "ACC" mode.



Adaptive cruise control mode



THE ADAPTIVE CRUISE CONTROL MUST NOT BE USED IN HEAVY TRAFFIC, ON WINDING ROADS OR SLIPPERY ROADS.

ADAPTIVE CRUISE CONTROL IS A DRIVING AID MODE AND CANNOT UNDER ANY CIRCUMSTANCES REPLACE COMPLIANCE WITH SAFETY DISTANCES AND SPEED LIMITATIONS OR THE DRIVER'S RESPONSIBILITY.

Activation of mode and adjustment of cruising setpoint speed

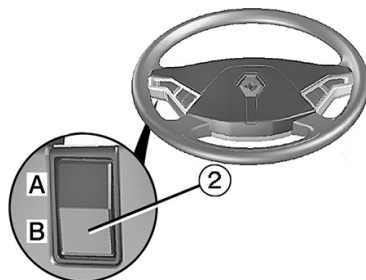
Once the regulation mode has been selected, take the vehicle to the speed required using the accelerator pedal, the retarder control or the service brake.

To activate the "ACC" adaptive cruise control mode with current speed (1) as the setpoint, press on one of the positions "A" or "B" of control (2) located under the steering wheel.



To adjust your cruising speed:

- a short press of control (2) in position "A" increases the set speed by 1 km/h. Pressing and holding control (2) in position "A" increases the set speed in 5 km/h increments.
- a short press of control (2) in position "B" decreases the set speed by 1 km/h. Pressing and holding control (2) in position "B" decreases the set speed in 5 km/h increments.



After activating adaptive cruise control mode "ACC", indicator pictogram (1) and memorised set speed (2) appear on the speed information display.



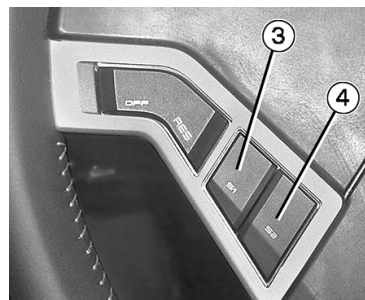
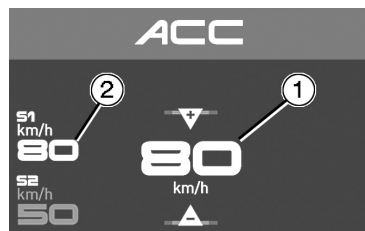
Use of cruising setpoint speeds stored in memory

This function has 2 predefined set speeds in "S1" and "S2" which can be activated quickly and may be customized.

A short press on control (3) or (4) located under the steering wheel quickly activates set speeds "S1" or "S2".

To customize set speeds "S1" or "S2", adjust set speed (1) to the value required and store it in memory with a long press on control (3) or (4) located on the steering wheel.

The favourite set speed "S1" or "S2" is updated and an audible signal sounds as confirmation.



Activation of an "S1" or "S2" set speed may result in sudden acceleration. Ensure that the traffic conditions are suitable.

Exceeding the cruising setpoint speed

It is possible at any moment to exceed set speed (1). To do so, depress the accelerator pedal.

During the time the speed is exceeded, set speed (1) flashes on the speed information display.



When you release the accelerator pedal, the adaptive cruise control function is resumed automatically.



Depressing the accelerator pedal for more than 3 minute(s) automatically deactivates the cruise control mode.

Maintaining the cruising setpoint speed

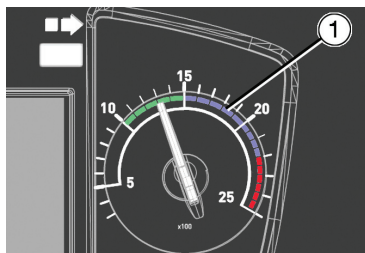
On a downhill run, if necessary, the cruise control automatically controls the different retarders in order to maintain the speed within 3 km/h above the set speed stored in memory.

Beyond 45 seconds, the vehicle speed is taken back to the legal speed if the power of the different retarders so permits.



If the speed stays high, a warning alerts you that the overspeed will be recorded in the tachograph memory.

A blue sector appears in rev counter zone (1) to indicate the engine speed at which retarder efficiency is optimal.



If the retarders cannot maintain the set speed, "ACC" warning pictogram (1) flashes on the speed information display; it is necessary to use the brakes.



Maintaining the limitation setpoint speed

If the exhaust brake cannot maintain the set speed (1), the speed flashes on the speed information display; it is necessary to use the brakes.

Detecting a vehicle with the adaptive cruise control function

When the "ACC" function detects a slower vehicle in front of you, warning light (1) is displayed to inform you that the function will slow down your vehicle in its approach in order to maintain the set distance between the two vehicles.



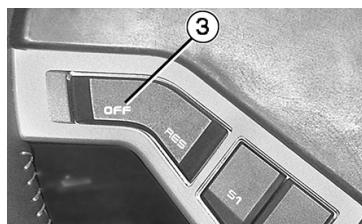
Depending on changes in traffic conditions, it is possible to modify the "ACC" mode levels using the selection control while retaining the set speed defined when the "ACC" mode was activated.

If an insufficient distance is detected between your vehicle and the one in front, an audible alarm informs you that the distance set point is no longer being maintained and that the brakes should be applied in order to avoid a risk of collision.

Adaptive cruise control function standby

The function is interrupted, indicator pictogram (1) is no longer displayed, the "ACC" indicator pictogram and memorised set speed (2) remain displayed if:

- you press control (3) on the steering wheel;
- vehicle speed is less than 15 km/h;
- you operate the brake pedal or the retarder control.



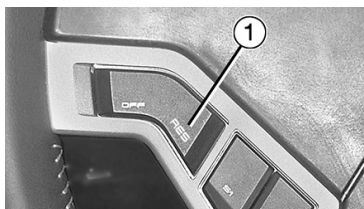
Adaptive cruise control is suspended when one of the functions "ABS", "ASR", "EBS", "ESC" is engaged.

Recalling the cruising setpoint speed

If a set speed (1) is stored in memory on the speed information display, it is possible to recall it after you have ensured that the traffic conditions are suitable.



- Press control (1) located on the steering wheel; set speed (2) appears for a few seconds on the multifunction information display .

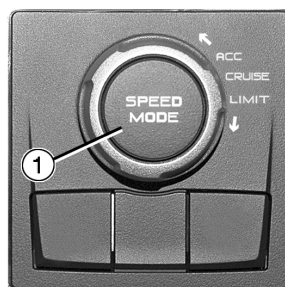


"Cruise" indicator pictogram (1) reappears in addition to set speed (2).



Deactivating the adaptive cruise control mode

To deactivate the adaptive cruise control mode, press control (1); the "Speed mode" warning pictogram is no longer displayed.

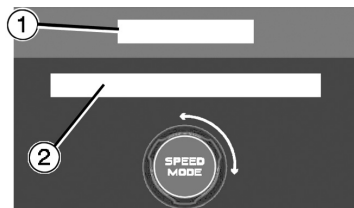
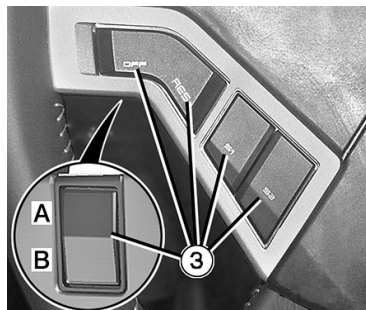


The "Cruise" and "ACC" pictograms and the cruising setpoint speed stored in memory disappear from the speed information display.



Use of controls with no mode selected

In the event of inadvertently pressing on one of the controls (3) on the steering wheel, the message "Speed Mode" (1) appears on the multifunction information display with a message (2) inviting you to select one of the modes.



The system may have problems identifying and managing certain traffic situations. It is always the driver's responsibility to keep safe distances from other vehicles and manage their speed.

In order to recognise and thereby avoid situations where the system might not perform correctly, please refer to the **"Devices to detect other road users"** pages in the **Safety** chapter.

Eco Cruise Control

The **Eco Cruise Control** function is used to engage the **"controlled free wheel"** function of the gearbox automatically, thus making optimum use of the vehicle's inertia, to the benefit of fuel consumption.

With cruise control

When the cruise control function is in use, fuel savings may be made by authorising variations in speed above and below the set speed.

Bring the vehicle to the desired speed and switch on the cruise control.

Using navigation control (1) located under the steering wheel, scroll through the pages to select the economic driving page (2) that shows your eco driving level (3).



Once the set speed has been entered, the system will automatically adjust overtaking speeds (1) and (2).

The greater the difference between the minimum and maximum speeds, the better the fuel economy.



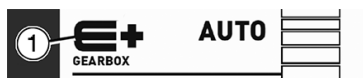
Engagement conditions of the "controlled free wheel" function

To reduce fuel consumption and take full advantage of the "Eco Cruise Control" function, it is recommended to lower your setpoint speed by a few km/h in relation to the maximum authorized speed.

The gearbox must be in position "DRIVE" mode "AUTO".

The "controlled free wheel" function engages automatically as soon as the road conditions are met.

Warning pictogram (1) appears on the multifunction display unit, the vehicle moves in "controlled free wheel", the engine is at idling speed.



Disengagement conditions of the "controlled free wheel" function

The "controlled free wheel" function is automatically switched off in the event of the accelerator pedal or brake pedal being depressed, or if the retarder control is used.

The gearbox then engages a gear appropriate for the speed of the vehicle.

Warning pictogram (1) is no longer displayed.

Pressing the cruise control "R" button authorises the re-engagement of the "controlled free wheel" function.

For speeds above the cruise control operating range, the "controlled free wheel" function switches off automatically, the gearbox engages a gear appropriate for the vehicle speed,

the retarders are applied to bring the speed back within the cruise control operating range and the warning pictogram (1) is no longer displayed.

For speeds below the cruise control operating range, the "controlled free wheel" function switches off, the warning light is extinguished, the gearbox engages an appropriate gear and restarts the vehicle to take it back within the cruise control operating range.

Once the vehicle speed has returned to the cruise control adjustment range, engaging the "controlled free wheel" function is again authorized.



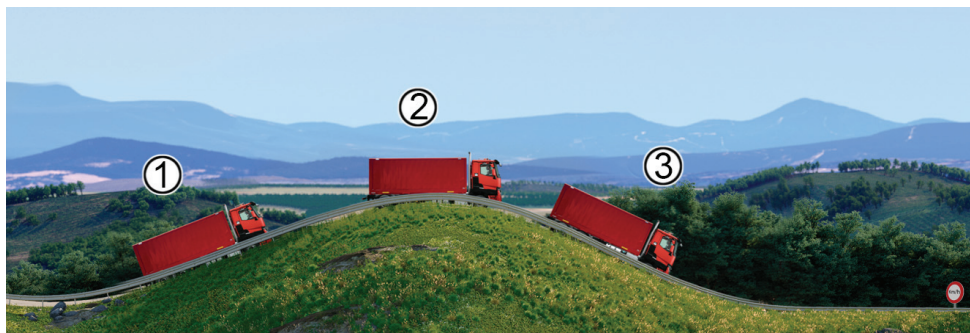
Manual gearbox mode will be inhibited from 7th gear.

Optivision

With the Optivision function, Eco Cruise Control takes the terrain into account and enables the best possible use of the vehicle inertia to improve fuel consumption.

By studying the topography of the terrain, the Optivision system anticipates the terrain and therefore adapts acceleration, gear shifting strategies and vehicle speed for more efficient driving.

1. When climbing: the system allows the vehicle to gradually lose speed, aiming to arrive at the lowest speed set at the peak.
2. On flat ground: the vehicle anticipates the terrain ahead.
3. Downhill: the vehicle allows the set speed to be exceeded in order to take advantage of inertia, anticipating the upcoming terrain.



The "Optivision" function is activated automatically when:

- The gearbox is in position "DRIVE" mode "AUTO".
- Cruise control is activated.
- Vehicle speed is above 40 km/h.

The symbol (1) is displayed in the "fuel efficient driving" page to indicate the status of the "Optivision" function:



- In grey when the system is available.
- In black when the system is active.

The symbol will not be displayed when the system is disabled.

The "Optivision" system includes the following functions:

Before hills

When approaching a hill, Optivision allows the vehicle speed to increase. This allows it to increase its inertia and keep the gear ratio engaged on the hill for longer.

On hills

On hills, Optivision uses map data to prevent unnecessary downshifts when approaching the summit. You reach the summit smoothly, without wasting fuel.

At the top of gradients

Optivision prevents any unnecessary acceleration of the vehicle when approaching a descent.

Before descents

Just before the slope, the drive train is temporarily disconnected, allowing the vehicle to progress in controlled freewheel.

During descents

Optivision knows where the slope ends and lets the vehicle accelerate intelligently all the way down.

In valleys

If a descent is followed immediately by a hill, Optivision proves to be a powerful asset. It allows the vehicle to coast in a controlled manner, increasing the vehicle's inertia to climb the hill with less effort.

The "Optivision" function is automatically activated when the system can provide for more efficient driving.

Pedal-controlled free wheel

Built into the cruise control, Optiroll automatically triggers the "controlled coasting" function on the Optidriver+ gearbox when driving conditions are favourable to saving fuel. It is also possible to use the function without using the cruise control.

Without cruise control

This function may be activated or deactivated via the information display menu.

Engagement conditions of the "controlled free wheel" function.

- gearbox in "AUTO" position;
- retarder control in position "0";
- gearbox ratio higher than 7th gear;
- "OFFROAD" mode deactivated;
- cruise control deactivated;
- accelerator pedal released.

Warning pictogram (1) appears on the multifunction display unit, the vehicle moves in **"controlled free wheel"**, the engine is at idling speed.



If deactivating the "controlled free wheel" system after depressing the brake pedal or activating the retarder, the accelerator pedal must be depressed again to reactivate the system.

Disengagement conditions of the "controlled free wheel" function

- action on the accelerator pedal;
- action on the brake pedal;
- actuation of the retarder control;
- activation of "OFFROAD" mode;
- activation of cruise control.

YOU SHOULD BE IN CONSTANT CONTROL OF YOUR SPEED AND ADJUST IT ACCORDING TO THE PROFILE AND CONDITION OF THE ROAD SURFACE, TRAFFIC DIFFICULTIES, FORESEEABLE OBSTACLES AND THE LEGAL SPEED LIMITATIONS IN FORCE.

Driver alert support

DAS (Driver Alert Support) is a driver support system that informs about the driver's level of attention on driving. The system attracts the driver's attention if driving ability is impaired, for example, if the driver is falling asleep.



DAS does not work in all driving situations and is a complementary tool. As a driver, you are ultimately responsible for the vehicle being driven in a safe manner.

Under no circumstances should this system be used as a replacement for the driver's own concentration, respect for the highway code and basic driver care and attention. Take a break lasting at least 15 minutes every 2 hours.

Recognise the first signs of tiredness: the need to stretch, any tingling in the back of the neck, itching at the back of the head. By the time you feel these sensations, it is already too late: you are in a state of hypo-vigilance and you need to take a break.



The system does not actuate the brakes or the steering in the truck. It only sends out acoustic signals via the instrument panel and shows messages in the display.

The DAS system is activated automatically when the truck starts and is available at speeds above 65 km/h.

The system can be turned off using switch on the instrument panel. In this case, a warning light will be displayed.

The system will be automatically reactivated the next time the vehicle is started. "

If cruise control or adaptive cruise control is engaged when DAS issues a warning, DAS will disengage it.



DAS can be deactivated automatically in the event of unclear road markings or certain weather conditions such as heavy rain, snowfall or similar.

When does the system give a warning?

DAS uses the truck's lane keeping to determine your level of attention. When the truck is not following the road markings in a smooth manner, you are warned by means of a message in the display and an acoustic signal.

For DAS to work, the following conditions must be met:

- The system is switched on.

- The road has legible lane markings.
- The truck has a speed greater than 65 km/h.



DAS must not be used to extend the driving shift. Make sure you are fully rested before driving and take regular breaks.



The DAS detects most situations in which your driving concentration is impaired, mainly due to tiredness. For added safety, make sure the Lane Departure Warning system is also activated.

If the system is not working

DAS may have limited functionality if there is snow, ice or dirt in the vicinity of the camera. If the system is unavailable or switched off without reason, check that the area in front of the camera is clean so that no dirt or misting obscures the camera on the outside of the windscreen.



Lane departure warning system

This system uses the road marking lines to visualise the position of the vehicle in relation to these white lines.

The lane departure warning system warns you in the event of accidental lane departure.



YOU SHOULD BE IN CONSTANT CONTROL OF YOUR SPEED AND ADJUST IT ACCORDING TO THE PROFILE AND CONDITION OF THE ROAD SURFACE, TRAFFIC DIFFICULTIES, FORESEEABLE OBSTACLES AND THE LEGAL SPEED LIMITATIONS IN FORCE.

The function is activated by default when the vehicle is started.



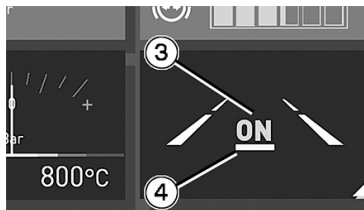
Select the function in the favourites to display it on the multifunction information display.

Function activation conditions

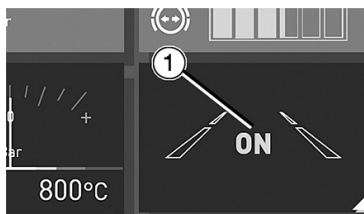
Conditions for activation of the lane departure warning system:

- Detection of white strips on the road;
- vehicle speed above 60 km/h;
- function active;
- no function input data errors.

If all conditions are met, indicator pictogram (3) **"ON"** underlined with dash (4) is displayed on the multifunction information display, the white lines are solid.



If one of the conditions is not met, indicator pictogram (2) **"ON"** without the underlining is displayed on the multifunction information display; the white lines are broken.



Operations

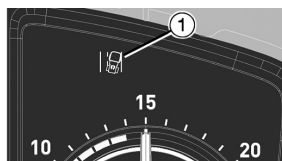
The camera positioned behind the windscreen will recognise the different lines and markings on the road.

It will then calculate the distance from the right-hand and left-hand lines on the road.

On the basis of this distance, the camera is able to determine whether the vehicle is moving closer to a line on the road and whether it crosses it.

The system recognises that the wagon has reached a line when the tyre tread is covering the line.

If crossing a line unexpectedly, the system requests that the radio issues a warning via the right-hand or left-hand speaker depending on the line being crossed (right-hand or left-hand) and warning pictogram (1) on the multifunction information display flashes.



Conditions for detecting an unexpected line crossing

Unexpected line crossing detection conditions:

- the direction indicators have not been activated for the last 4 seconds;
- the white lines on the road are noticeable;
- the white lines are regular;
- during the 4 last seconds, the system has detected that the vehicle was in its traffic lane;
- there have been no warnings from the system in the last 4 seconds.

Situations requiring attention

The system may have problems identifying and handling certain situations. Always be careful while driving.

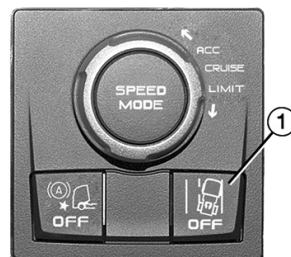
Be aware of traffic conditions and be ready to apply the brakes at all times.

In order to recognise and thereby avoid situations where the system might not perform correctly, please refer to the **"Devices to detect other road users"** pages in the **Safety** chapter.

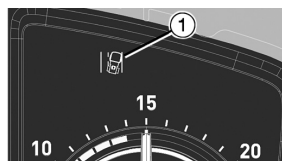
Deactivating the function

You can deactivate the function manually by pressing button (1).

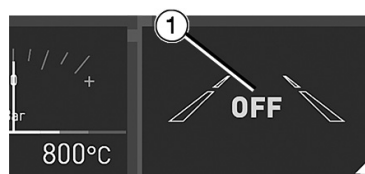
When the function is deactivated, button (1) is orange.



Indicator pictogram (1) is displayed.



Indicator pictogram (1) **"OFF"** is displayed on the multifunction information display.

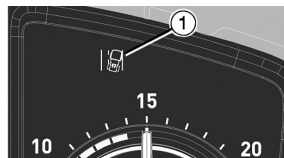
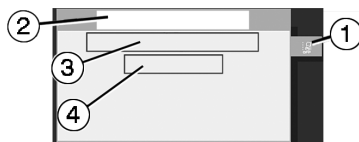


Operating fault



In the event of a system fault, warnings (1) are displayed, message (2) **"VISIT WORKSHOP"** and the associated messages (3) / (4) are displayed on the multifunction information display.

Visit your nearest RENAULT TRUCKS service centre.



AEBS system

The purpose of this function is to avoid colliding with the rear of motor vehicles travelling in front of and in the same direction as your vehicle, or to reduce the impact of such a collision if it is unavoidable. To do this, it detects moving and stationary vehicles in front of your vehicle and determines whether they represent a potential risk.

It informs you of dangerous situations, warns you by means of a visual and audible signal, and brakes your vehicle in the event of an imminent accident with the vehicle in front of you.

This function does not necessarily prevent the accident, but it can limit its consequences.

To do this, the AEBS system merges the data from two sensors (camera and radar) enabling it to detect and identify objects located in the area in front of your vehicle, and to determine their position and movement.

STOP

THE AEBS WILL NOT DETECT ALL POTENTIAL HAZARDS; IT IS ONLY A TOOL INTENDED TO COMPLEMENT DRIVING. YOU SHOULD BE IN CONSTANT CONTROL OF YOUR SPEED AND ADJUST IT ACCORDING TO THE PROFILE AND CONDITION OF THE ROAD SURFACE, TRAFFIC DIFFICULTIES, FORESEEABLE OBSTACLES AND THE LEGAL SPEED LIMITATIONS IN EFFECT. RELYING ENTIRELY ON THE AEBS MAY PUT YOU IN DANGEROUS SITUATIONS THAT CAN CAUSE IMPORTANT MATERIAL DAMAGES, SERIOUS INJURY OR DEATH.

STOP

THIS SYSTEM IS DESIGNED TO TRIGGER IN HAZARDOUS SITUATIONS. IT MUST NOT BE TRIED OR TESTED.

The function is activated by default when the vehicles is started.

Function activation conditions

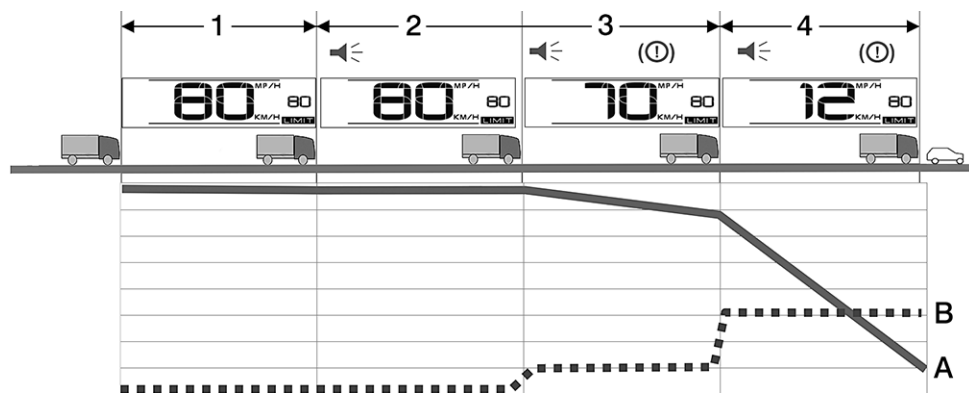
- vehicle speed above 5 km/h;
- function active;
- no function input data errors.



The system may display limited functionality if there is snow, ice or dirt in the immediate surroundings of the radar or camera. Adverse weather conditions such as heavy rain, fog or strong incident light can also limit functionality, in particular for the detection of stationary vehicles.

Operations

Depending on the information received by the radar and the camera with regard to the environment in front of your vehicle, the system will alert you and brake your vehicle if it considers that the situation is dangerous.



These situations are divided into 4 phases and calculated as a function of your vehicle speed, the distance between your vehicle and the one in front of you, and its speed.

In some situations, the system may go through several steps to respond to the severity of the situation.

A: speed curve.

B: deceleration curve.

Pre-warning

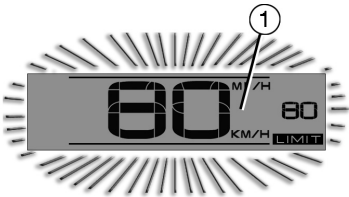
The section of multifunction information display (1) associated with speed changes to red, informing you that the situation may be dangerous.



You may see this pre-warning frequently if driving aggressively.

Warning

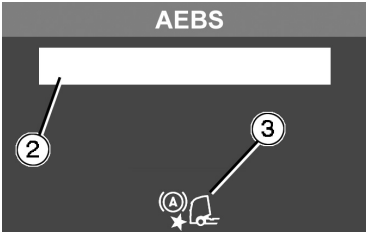
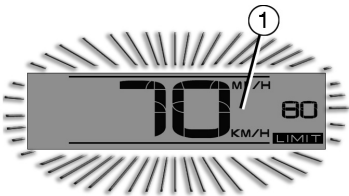
If you have not reacted to the pre-warning, the section of multifunction information display (1) associated with the speed flashes in red, an audible warning sounds, alerting you that the situation is dangerous, the vehicle speed remains constant.



Initial application of brakes

If you have not reacted to the warning, the section of multifunction information display (1) associated with the speed flashes in red, an audible warning sounds and the brakes are applied alerting you of the risk of an imminent collision and begins to slow the vehicle.

When the system no longer detects a collision hazard, a message (2) and indicator (3) will inform you that the system automatically applied the brakes.

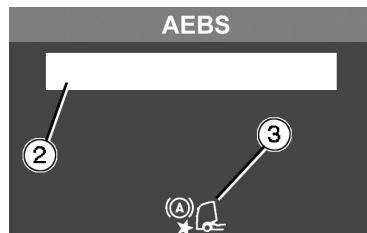
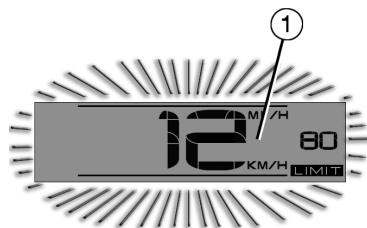


Emergency braking

If you have not reacted to the initial application of the brakes, the previous audible and visual warnings on multifunctional information display (1) continue and emergency braking is activated automatically in an attempt to avoid the collision.

The emergency braking phase ends if one of the following conditions is met

- disappearance of the risk of collision as a result of avoidance on your part or if the vehicle in front of you changes direction;
- the speed of your vehicle drops to less than or equal to that of the vehicle in front of you as a result of emergency braking;
- your vehicle comes to a complete standstill as a result of emergency braking;
- you depress the accelerator pedal fully, in the "Kick down" position;



Once the risk of collision has been averted through avoidance or by braking on your part, a message (2) and warning pictogram (3) inform you that the system is acting automatically on the brakes.

As soon as your vehicle is fully immobilised by the system, it automatically applies the parking brake.



During the emergency braking phase the brake lights flash; once the vehicle has stopped the hazard warning lights flash.

In the event of unnecessary emergency braking, this action can be cancelled by depressing the accelerator pedal fully ("Kick down").



Once three emergency braking events have been triggered, the system is deactivated. Contact a RENAULT TRUCKS garage to reactivate it.

Situations requiring attention

The system may have problems identifying and handling certain situations. Always be careful while driving.

Be aware of traffic conditions and be ready to apply the brakes at all times.

In order to recognise and thereby avoid situations where the system might not perform correctly, please refer to the **"Devices to detect other road users"** pages in the **Safety** chapter.



The system accounts for stationary vehicles as well as vehicles travelling in the same direction in the same lane. It does not account for vehicles crossing the lane or coming from the opposite direction. Additionally, the system does not account for animals, pedestrians or bicycles.

Deactivating the function

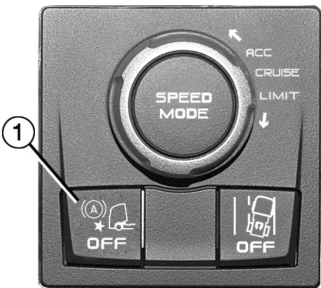
You can deactivate the function manually by pressing button (1).

When the function is deactivated, button (1) is orange, warning pictogram (2) appears on the multifunction information display.



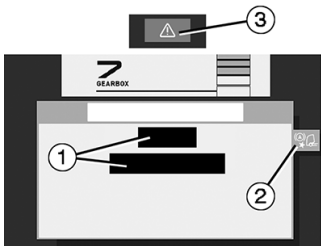
*If your vehicle is towing more than one trailer, it is recommended to deactivate the **"AEBS"** function. The system is not always able to detect the presence and status of the ABS system for more than one trailer, unless you are certain that your trailers are equipped with ABS in working order.*

*The **"AEBS"** system requires all trailers to have ABS in working order in order to ensure the stability of the tractor/ trailer combination under emergency braking.*



AEBS system fault

If the **"AEBS fault"** message (1) and associated warning pictograms (2) appear on the multifunction information display and **"SERVICE"** warning (3) is lit, visit a RENAULT TRUCKS garage.



Accelerator pedal

If the accelerator pedal fails

If the accelerator pedal has a fault, when starting up the vehicle, the information display will ask you to run a pedal check.

Follow the instructions carefully, then go to a Renault Trucks service point.

"EBS" system

The "EBS" system manages vehicle braking and assures anti-lock braking and anti-slip regulator functions.

Anti-lock braking system "ABS"

This system prevents the wheels from locking under sharp braking.



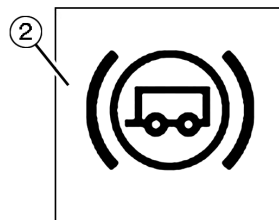
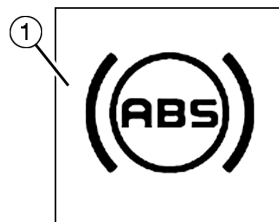
Depending on the trailer being used, the warning light disappears after a few seconds, even when the vehicle is stationary.

In the event of a fault

In the event of a system fault or malfunction, (warning pictogram(s) (1) / (2)), it is deactivated and the vehicle reverts to conventional braking. Contact a RENAULT TRUCKS garage quickly to repair the system.



In the event of an electronic control mode fault, the EBS system switches to pneumatic backup mode and a difference in feel on the brake pedal may be felt. Maximum braking power is still available when the pedal is depressed fully.

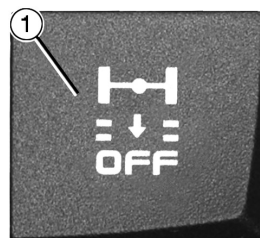
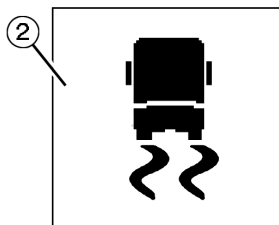


Anti-slip regulation "ASR"

When you move away or under acceleration, this system prevents the wheels from slipping, whatever the condition of the road surface.

This function is activated:

- if a wheel slips, this wheel is braked to bring its speed into line with that of the opposite wheel;
- if two wheels slip, engine speed is limited then the slipping wheel is braked to bring its speed into line with that of the wheel opposite.



On the road

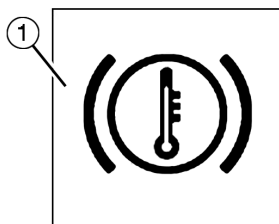
During operation of the ASR system, indicator pictogram (2) flashes.

On slippery road surfaces (snow, ice, gravel, etc.), the ASR can be deactivated by pressing switch (1). Warning pictogram (2) is displayed.

Brake temperature warning

If the brakes overheat, warning light (1) will appear on the information display.

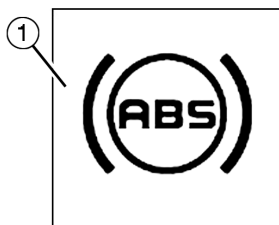
It is then necessary to adapt the vehicle speed and driving style. Use the retarder(s) if the vehicle is so-equipped.



Reduced braking performance warning

If the system detects a significant drop in braking performance of the tractor-trailer combination, warning pictogram (1) appears on the information display. It works in conjunction with the "Service" warning pictogram.

Have the tractor and trailer braking systems inspected by a RENAULT TRUCKS garage (brake test bench).



Brake fault warning

If the system detects a significant drop in braking performance on one of the tractor wheels, warning pictogram (1) appears on the information display. It works in conjunction with the **"Service"** warning pictogram.

Have the braking system on the wheel in question inspected by a RENAULT TRUCKS garage (brake test bench).

Emergency brake assist

By measuring the speed at which the brake pedal is depressed, the system serves to detect an emergency braking situation.

The system increases braking pressure automatically.

This function ensures maximum power is available in the event of emergency braking.

If emergency braking is detected this automatically triggers the flashing of the stop lights.

The emergency braking signal can only be activated if the vehicle speed is greater than 50 km/h.

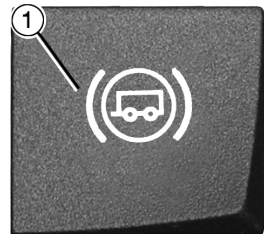
Trailer brake

Static trailer brake

Keep switch (1) pressed to brake the trailer.

The brakes will only be applied if the speed is below 4 km/h.

The brakes will be released once the speed exceeds 7 km/h or if the switch is released.



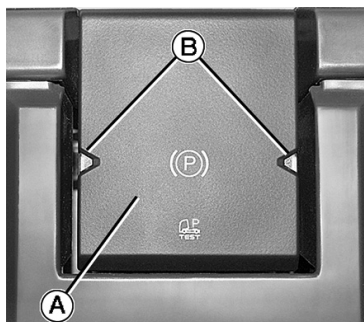
Emergency brake

In the event of a service brake fault on one axle, the other axle provides emergency braking efficiency.

Electrically controlled parking brake

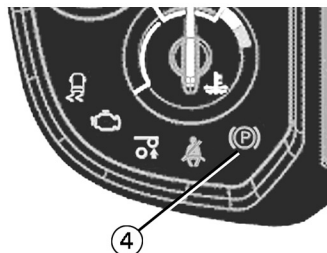
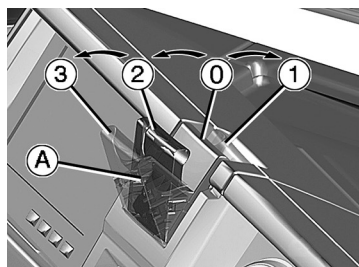
The parking brake is used to guarantee that the vehicle is immobilised when stopped. If the brakes fail, it can also be used as an emergency brake.

Parking brake control (A) works simultaneously on the axle(s) equipped with a parking brake and on the trailer brakes.



Manual release

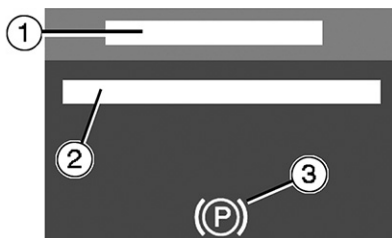
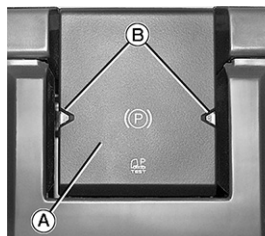
Depress the brake pedal, push parking brake control (A) from position (0) to position (1) and release it; it returns to position (0). Once the parking brake has been released, indicator pictogram (4) is no longer displayed.



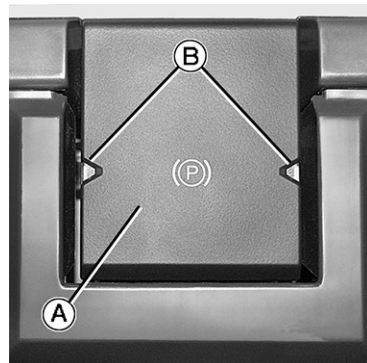
Indicator lights (B) for parking brake control (A) are no longer displayed and message (2) in information field (1) informs you that the parking brake is released.

The parking brake stays on:

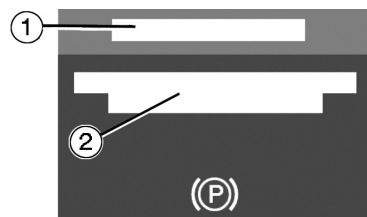
- in the event of forgetting to depress the brake pedal;
- in the event of forgetting to depress the brake pedal or the accelerator pedal if a gear is engaged.



Indicator lights (B) for parking brake control (A) are no longer displayed and message (2) in information field (1) informs you that the parking brake is released.



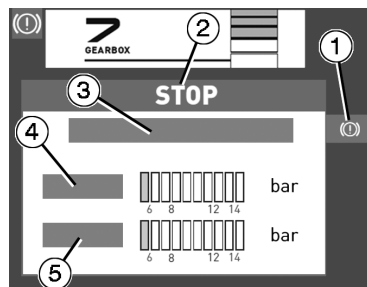
In the information area concerned (1), a message (2) on the multifunction information display tells you that you must depress the brake pedal or the accelerator pedal.



*If a gear is engaged, you may be asked to depress either the brake pedal or the accelerator pedal.
To use the accelerator pedal, the parking brake control (A) must be held in position (1).*

In the event of air pressure loss in the circuit:

- warning pictogram (1) is displayed;
- "STOP" warning pictogram (2) is displayed;
- message (3) informs you that the air pressure is too low and that the parking brake cannot be applied;
- front circuit pressure warning pictogram (4) is displayed;
- rear circuit pressure warning pictogram (5) is displayed.





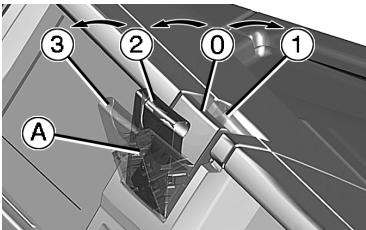
The parking brake cannot be released when the ignition is switched off or when the pressure in the air tanks is less than 7 bar.



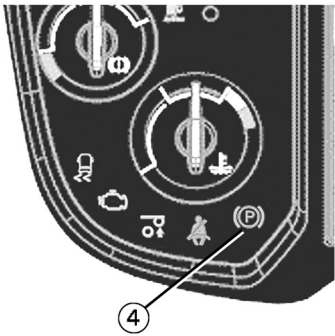
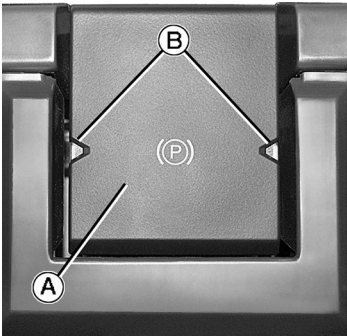
Regardless of the vehicle's ignition mode, you always have the option of operating the parking brake control to activate it.

Manual application

Pull parking brake control (A) from position (0) to at least position (2).

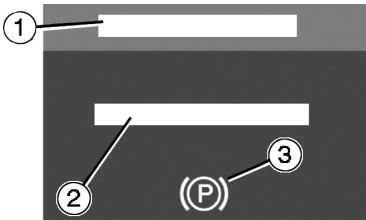


Release parking brake control (A); indicator lights (B) / (4) are lit.



Message (2) in the information area concerned (1) tells you that the parking brake is applied.

The vehicle is immobilized by the axle(s) fitted with a parking brake.





You must not leave the cab of the vehicle without checking that warning lights (B) / (4) are lit.

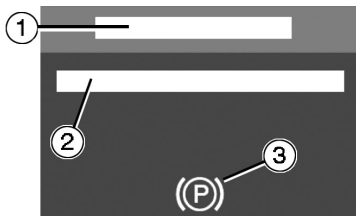


You must not leave the cab of the vehicle without checking that warning lights (B) / (4) are lit.

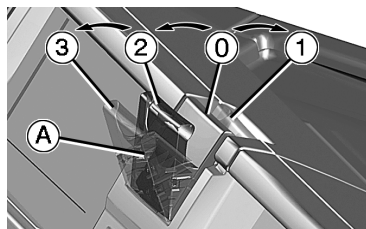


If you operate parking brake control (A) when the vehicle speed is greater than 7 km/h, the parking brake will be applied progressively depending on the position of control (A).

Message (2) in the information area concerned (1) informs you that the dynamic parking brake is activated.

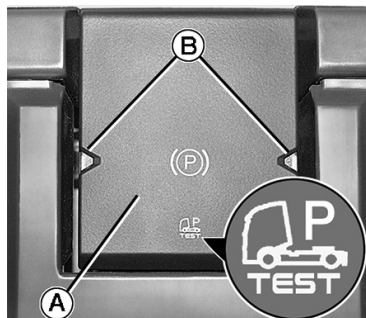


If you pull parking brake control (A) from position (0) to position (2) when the vehicle speed is greater than 7 km/h, the parking brake will not be applied.



Test

The function is present on your vehicle if the "test" logo appears on control (A).

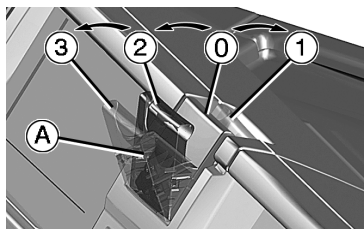


Before leaving the vehicle, ensure the parking brake is properly applied.

The parking brake must first be applied.

Move and hold parking brake control (A) from position (2) to position (3) passing through the hard spot.

Do not depress the brake pedal.

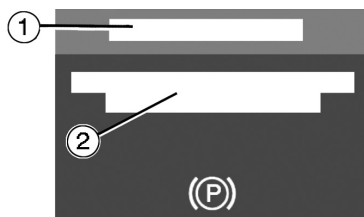


This position releases the trailer braking and the whole vehicle is immobilized by the tractor for a maximum of 10 seconds.

In the information area concerned (1), message (2) instructs you to check the stability of the tractor-trailer combination and ensure that the trailer brakes are temporarily deactivated.

This position serves to ensure that the tractor alone can hold the whole vehicle immobilized.

As soon as the control is released, it returns automatically to the parking position (0).



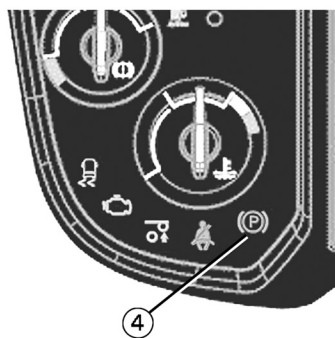
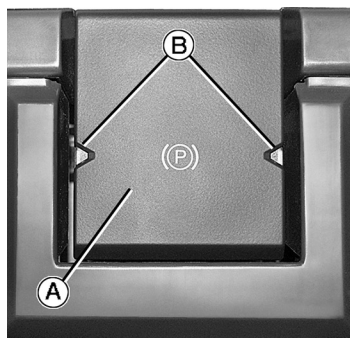
If your vehicle has a gross combination weight (GCW) of 60 tonnes, the parking brake also works on the front axle of the tractor.

Automatic operation

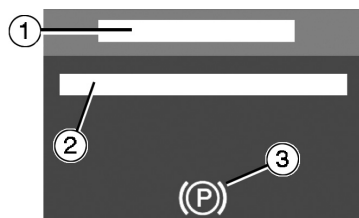
Application

The parking brake will be automatically activated when the ignition is switched off.

Indicator lights (B) / (4) are lit.



In the information area concerned (1), message (2) informs you that the parking brake is activated, and indicator pictogram (3) is displayed.



Engine stalling

When the engine stalls, the parking brake will be activated automatically 20 seconds after the ignition is switched off.

Loosening

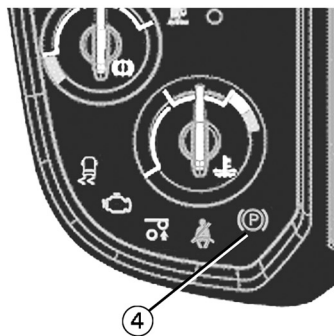
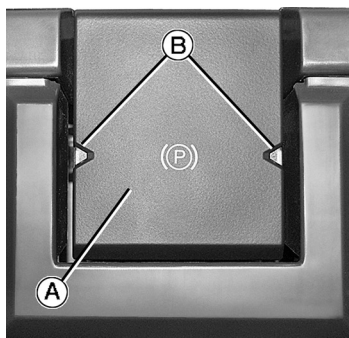
With the gear selector on "D" or "R", starting ratio engaged, start the vehicle by accelerating.

The brakes will be automatically released when there is sufficient engine torque.

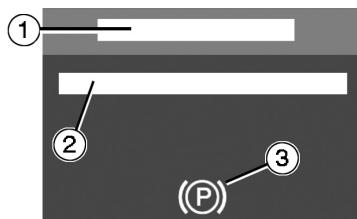
Moving away uphill

You can use the automatic release function for easier hill starting.

Warning lights (B) / (4) go out.



Message (2) the information area concerned (1) informs you that the parking brake is released.



With the parking brake activated, in the event of a door opening, the parking brake automatic release mode will be deactivated automatically.

Manual release of the parking brake is then mandatory to reactivate the function.

Parking brake not set alert

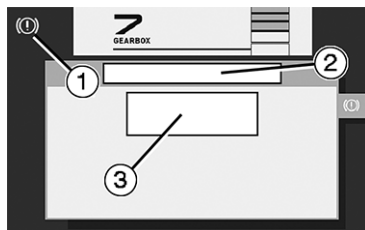
With the vehicle stationary, if you open the door (driver or passenger), a message and an audible signal will tell you that the parking brake is not applied.

The alert is deactivated if you depress the brake pedal or accelerator pedal.

Defective control

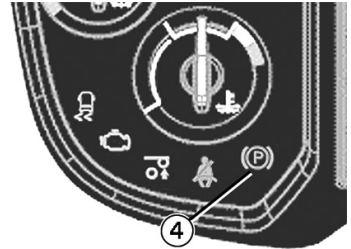
In the event of an anomaly affecting the parking brake control (A):

- warning light (4) flashes when driving;
- message (2) and an associated warning pictogram (1) prompts you to contact a RENAULT TRUCKS garage:
- message (3) informs you there is a fault on the parking brake.



The parking brake will be activated automatically as soon as vehicle speed is less than 7 km/h.

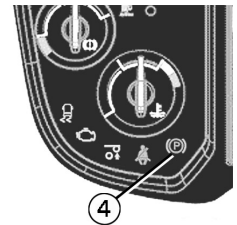
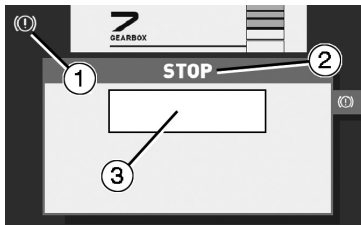
If the vehicle stops for more than 10 seconds, indicator pictogram (4) remains displayed.



The next time the vehicle is stopped, if the ignition is switched off for more than 1 minute, when the ignition is switched on again:

- the message **"STOP"** (2) and associated warning pictogram (1) appear on the multifunction information display;
- information message (3) is displayed and you must stop the vehicle;
- warning pictogram (4) appears on the multifunction information display.

Contact a RENAULT TRUCKS garage.



Before leaving the vehicle check that indicator pictogram (4) is displayed constantly.



*In the event of parking brake failure, with the **"STOP"** light illuminated, stop on a flat surface and use the wheel chocks to immobilize the vehicle.*

Hill start assist

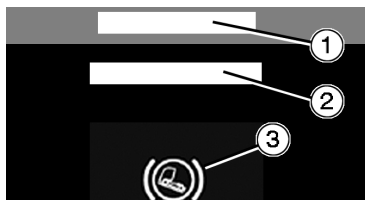
Hill Start Aid prevents the truck from rolling backwards when starting on an uphill gradient by maintaining braking performance until the truck is in traction mode.

This function is used to assist you when moving off from being stationary on a hill.

Hill start aid is activated/deactivated by a switch (1).



As long as the braking pressure is maintained, hill start assist page (1), associated message (2) indicating that the hill start assist function is active and indicator (3) appear on the multifunction display.



- prevent the vehicle from moving using the foot brake;
- press the switch, the hill start assist function is activated and the switch indicator light is illuminated;
- release the brake pedal, the vehicle remains immobilised for 3 second, the indicator remains displayed on the multifunction information display as long as the function is active;
- accelerate.



When the vehicle has moved off, the function is always deactivated.



The system is deactivated automatically after 3 seconds or as soon as engine torque reaches a sufficient level.



You may deactivate the function manually by pressing the switch.



Only use this function on inclines.

Diesel particulate filter

In order to protect human health and the environment, the Euro VI regulation imposes a new reduction in pollutant emissions.

A particulate filter is now mandatory.

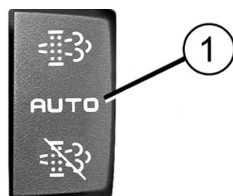
During regeneration, other than a slight increase in engine speed and a change in engine noise, you will not be informed that regeneration has been activated or deactivated. The regeneration process is performed automatically without any intervention from the driver.

Regeneration switch

Automatic regeneration

Switch (1), in "AUTO", position, allows particulate filter regeneration to take place without your intervention.

If deactivating regeneration, pressing the top part of switch (1) reactivates automatic regeneration.



Manual regeneration

Pressing the top part of switch (1) activates or stops manual regeneration.

Stopping regeneration

Pressing the bottom part of switch (1) stops a manual regeneration in progress or deactivates automatic regeneration.

Automatic regeneration

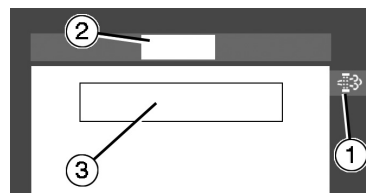
With the vehicle running, automatic regeneration starts as soon as the particulate filter reaches a high level of saturation and when all the conditions are met (vehicle speed, exhaust gas temperature, etc.).

During regeneration, the engine idling speed is slightly higher and the engine noise changes.

If one of the conditions is no longer met, automatic regeneration may be suspended. Once the conditions are met again, it starts again automatically.

If one of the warnings below appears, the conditions of vehicle use do not allow regeneration to ensure the complete elimination of the particulates.

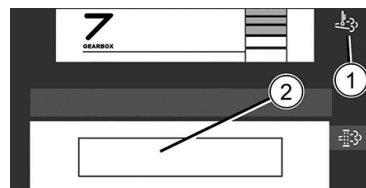
When warning pictogram (1) is displayed and an associated message (2) informs you of the requirement to **visit a workshop**, message (3) informs you that the particulate filter is clogged. In this case, contact a RENAULT TRUCKS garage as quickly as possible.



If you ignore the warnings concerning regeneration, reduced engine performance and/or damage to the particulate filter may occur that would require it to be replaced.

Five minutes after starting regeneration, pictogram (1) and message (2) are displayed. They inform you that the temperature of the exhaust gases is high.

When regeneration is complete, pictogram (1) and message (2) are no longer displayed.



Uninterrupted, automatic regeneration takes approximately one hour. For optimal regeneration of your particulate filter, avoid switching off the engine or stopping for prolonged periods during the regeneration process.



DIRECT CONTACT WITH OR INHALATION OF DIESEL PARTICULATE MATTER OR SOOT CAN RESULT IN SERIOUS INJURY OR DEATH. IF YOU HAVE TO CHANGE THE PARTICULATE FILTER FOR OPERATIONAL OR TECHNICAL REASONS, CONTACT A RENAULT TRUCKS GARAGE.



If the vehicle is used for short distances or with low loads, automatic regeneration may be insufficient.



Automatic regeneration continues in operation for a few minutes during a short stop (stop sign, traffic lights, etc.), with the engine running.



If the parking brake is applied for more than four minutes during regeneration, regeneration is suspended automatically.



The regeneration process is suspended if the engine is switched off. The regeneration process is resumed only once all conditions are met.

Manual regeneration

Safety



THE EXHAUST GASES EMITTED DURING THE MANUAL REGENERATION PROCEDURE PRESENT A RISK OF POISONING. PARK OUTSIDE OR IN A VENTILATED AREA ONLY.



Before starting static manual regeneration, it is essential to comply with the following recommendations:

- *Park the vehicle outside, on a tarmac or gravel surface (no risk of heat propagation or damage);*
- *Check to make sure that there are no flammable materials near the exhaust outlet;*
- *Ensure that the exhaust outlet is not directed towards objects or structures that could be damaged by high temperatures.*



PARK THE VEHICLE, MONITOR TRAFFIC CONDITIONS, AND LEAVE THE ENGINE RUNNING.



DURING MANUAL REGENERATION, WHEN THE VEHICLE IS STATIONARY, STAY CLOSE TO THE VEHICLE IN ORDER TO SUPERVISE THE PROPER FUNCTIONING OF THE WHOLE SYSTEM AND TO PREVENT ANY OBJECT OR PERSON FROM COMING CLOSE TO THE EXHAUST.

STOP

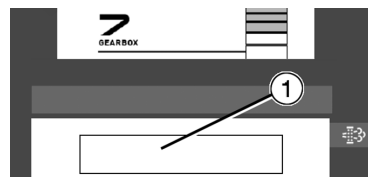
DIRECT CONTACT WITH OR INHALATION OF DIESEL PARTICULATE MATTER OR SOOT CAN RESULT IN SERIOUS INJURY OR DEATH. IF YOU HAVE TO CHANGE THE PARTICULATE FILTER FOR OPERATIONAL OR TECHNICAL REASONS, CONTACT A RENAULT TRUCKS GARAGE.

Operation

In some operating conditions, such as frequent stopping and/or low engine loads, automatic regeneration of the particulate filter does not take place or may be less than optimal.

In these conditions, static manual regeneration of the particulate filter is necessary.

Message (1) informs you that regeneration is required, with the vehicle stationary.



Conditions necessary for manual regeneration:

- there must be a sufficient level of contamination in the particulate filter;
- the air suspension is set to the road position;
- the accelerator pedal is released;
- Fast idle speed regulation control disable ;
- the gear selector is in neutral;
- the vehicle is stationary;
- the parking brake is applied;
- the engine must have reached a normal operating temperature;
- the exterior temperature must be greater than -30°C ;
- the system must be free from all defects.

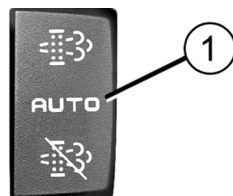
Static manual regeneration lasts between 30 and 70 minutes.



If these conditions are not met, you will receive a message informing you of the condition(s) required to perform manual regeneration.

Particulate filter

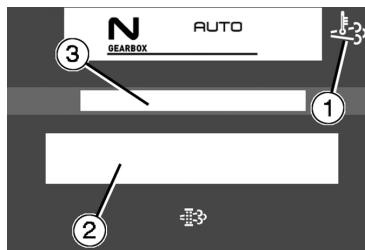
Press on the upper part of regeneration switch (1) for 1 second(s) to start manual regeneration.



5 minutes after starting regeneration, pictogram (1) is displayed. It informs you that the temperature of the exhaust gases is high.

Message (2) with the heading **PARTICULATE FILTER** (3) indicates that the exhaust temperature is increasing and that the vehicle must be parked in a suitable area.

Engine speed increases.

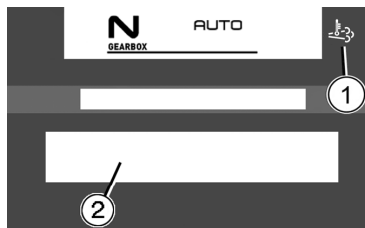


If one of these conditions is broken while a manual regeneration is in progress, it is interrupted and a message reports which condition is no longer met.

End of regeneration

When regeneration is complete, high temperature warning pictogram (1) remains displayed until the exhaust gas temperature returns to a normal level.

Message (2) with heading **PARTICULATE FILTER** indicates that regeneration is complete.



Stopping the regeneration in progress

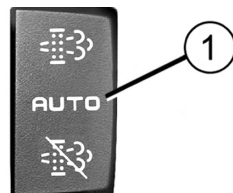
Once a static manual regeneration has been started, it is recommended that it not be interrupted.

It is not possible to carry out manual regeneration over several sessions. The system does not take partial regeneration into account and restarts complete regeneration when the next request is made.



A new regeneration will be possible after a specific time period has elapsed.

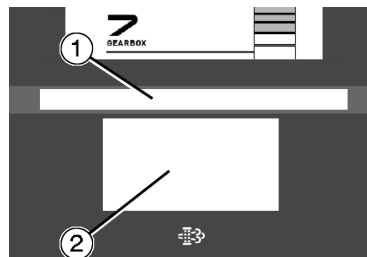
However, it is possible, in emergency scenarios, to interrupt a manual regeneration in progress by pressing the top part or bottom part of switch (1) again.



Regeneration is not possible

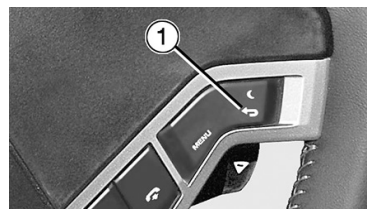
Regeneration is interrupted if one of the conditions required for this regeneration is not met.

In this case, message (2) with the heading **PARTICULATE FILTER** (1) indicates the cause of the regeneration interruption.



A delay of 30 seconds is imposed between each attempt. Pressing button (1) before the end of this delay has no effect.

To delete the message, press button (1) on the steering wheel.



Immediate regeneration

If no action is taken after the warning above:

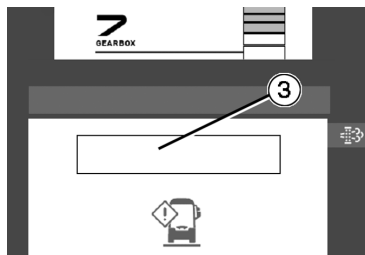
When clogging reaches a critical level, message (3) **"Carry out regeneration IMMEDIATELY"** is displayed.

When clogging reaches a critical level, message (3) **"Carry out regeneration IMMEDIATELY"** is displayed.

In this condition, an engine torque reduction phase is applied in order to protect the system.

If you start a manual regeneration, message (3) remains displayed until the regeneration is complete.

If you do not start a manual regeneration, message (3) disappears, then reappears after a few minutes.



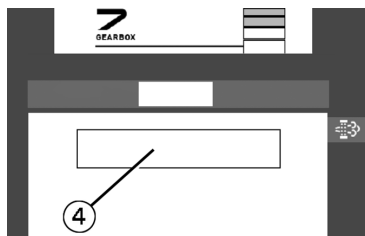
Particulate filter clogged

If no action is taken after the warning above:

When particulate filter clogging reaches the maximum level, message (4), indicating the need for assistance, is displayed on the multifunction information display.

An audible alert sounds.

In this condition, a strong engine torque reduction phase is applied in order to protect the system. It is then no longer possible to trigger a static manual regeneration by pressing the button.



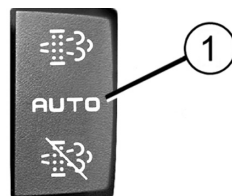
In this case, you must visit a RENAULT TRUCKS garage as quickly as possible, as indicated in message (4).

Regeneration interrupted or function deactivated

During regeneration, gases at very high temperatures are emitted via the exhaust. For safety reasons in a danger zone, if you are transporting dangerous goods, for example, you can deactivate the automatic mode. In this case, automatic regeneration cannot start and, if it is in progress, it is interrupted.

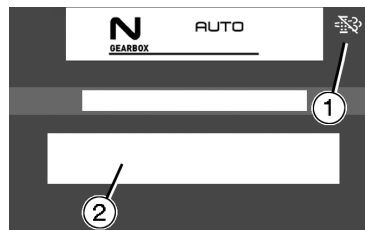
The interruption or deactivation of automatic regeneration involves a speed limit of 40 km/h.

To interrupt a regeneration in progress or to deactivate automatic regeneration, press the bottom part of switch (1).



If there is no regeneration in progress and the speed is below 40 km/h:

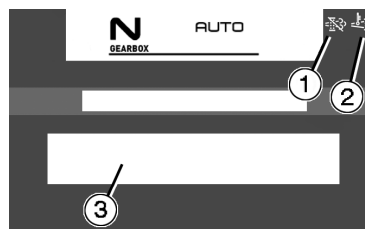
Regeneration deactivation pictogram (1) is displayed and message (2) informs you that automatic regeneration is deactivated and that speed is limited to 40 km/h.



If regeneration is in progress and the speed is below 40 km/h:

Regeneration deactivation pictogram (1) is displayed.

Pictogram (2) indicating high exhaust gases associated with regeneration remains displayed until the temperature returns to a normal level.



Message (3) informs you in turn that regeneration has been interrupted, that speed is limited to 40 km/h, then that the exhaust gas temperature is very high.



If the speed limit condition is not complied with, a message is displayed indicating that regeneration cannot be interrupted or deactivated.

Gearbox, use

The Optidriver+ gearbox selects the right gear to match the speed and the driving at the right time to guarantee better mobility and more comfortable driving.

It thereby offers many advantages compared to a mechanical gearbox in terms of its performance, user comfort, safety and profitability.

Optidriver gearbox



*Gearboxes are fitted with an oil pump for lubrication (for towing, refer to the **Breakdown recovery, quick repair** section).*

Optidriver system

First of all, we will briefly take a look at the main functions of your gearbox before going into more detail in the next section.

The Optidriver system determines then automatically engages a suitable gear ratio as a function of the vehicle load, road gradient, accelerator pedal position and whether or not the retarders are activated. It improves comfort and safety, reducing driver fatigue because they only need to concentrate on traffic conditions.

The Optidriver system may be used in two different ways: in integral automatic mode or in manual mode. It is strongly recommended to use it in integral automatic mode in order to benefit from optimised management of the driveline.

First contact with Optidriver

Starting the vehicle

The Optidriver system is automatically in neutral.

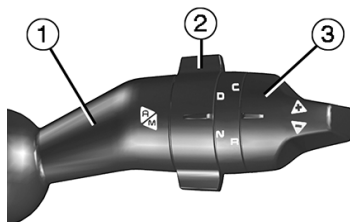
Start the engine.

With the parking brake engaged, move the line on ring (2) to opposite mark "D".

The starting gear is engaged.

Depress the brake pedal and release the parking brake.

Release the brake and operate the accelerator pedal: the vehicle moves forwards.





You are recommended not to modify the position of the accelerator pedal when changing gear.

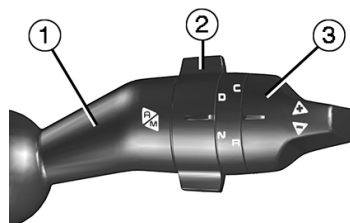


The vehicle may move with the parking brake applied, even if the throttle pedal is not activated; use the brake pedal to keep it immobile.

Shifting to reverse gear

With the vehicle stationary, move line on the ring (3) on selector (1) to opposite mark "R".

The system engages first reverse gear R1. With reverse engaged, move the selector backwards (–) to shift from R1 to R2 (or from R2 to R3) and forwards (+) to shift from R3 to R2 or from R2 to R1.



For preference start in R1.

Shifting from R1 to R2 can be done with the vehicle moving at a recommended engine speed greater than 1000 rpm.



An audible "beep" indicates a change of direction, from forward drive to reverse or from reverse to forward drive.

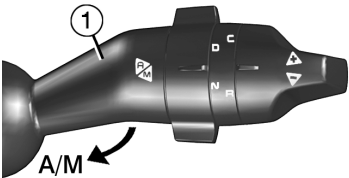
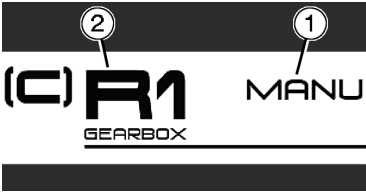


Fast reverse gear R3 must not be used for manoeuvring.

Only to be used in exceptional situations requiring rapid movement in reverse.

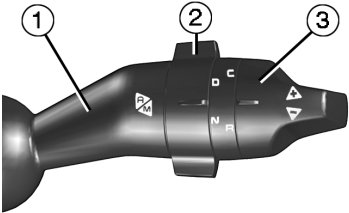


When reverse gear is selected, the **"Manu"** (1) and **"R(x)"** (2) information is displayed. Perform your manoeuvre and switch to integral automatic mode by positioning the selector to face the **"AM"** marking.

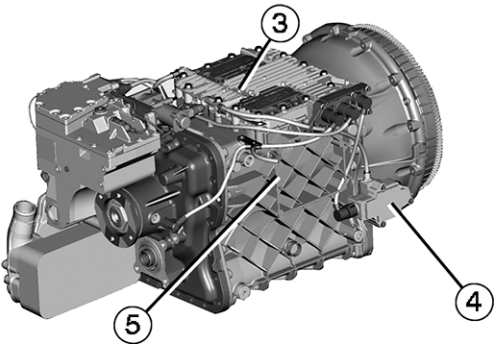
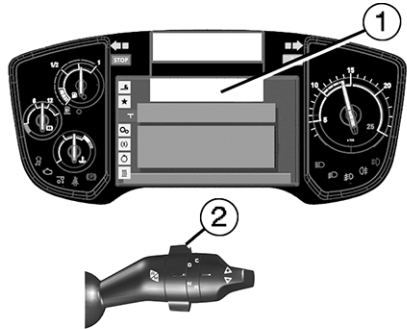


Stop

Move the line on ring (2) of gear selector (1) to opposite the "N" mark to shift the gearbox into neutral and engage the parking brake before leaving the vehicle.



Description of Optidriver



The Optidriver has 5 main components:

- gear information display (1),
- a gear selector (2) with integral control unit,
- a speed control module (3) with integral control unit,
- a clutch control device (4),
- a mechanical crash gearbox (5).

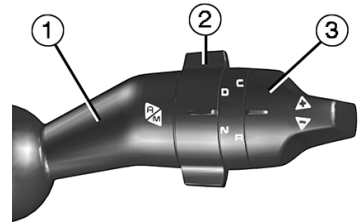
Gear selector (1)

Gear selector (1) can be moved in three directions for driving and has two rings (2 / 3) for shifting into neutral and for "manoeuvring" mode:

Ring (2): "N"/"D" positions

Move the ring to "N", the gearbox shifts to neutral.

Move the ring to "D", the gearbox engages the starting gear.



Ring (3): "C"/"R" positions ("manoeuvring" mode)

Toggle the ring to "C"; the gearbox engages the 1st forward gear and switches to manual mode.

Toggle the ring to "R"; the gearbox engages the 1st reverse gear and switches to manual mode.

Push the selector towards you once ("A/M") to return to "automatic" mode and exit "manoeuvring" mode.

Forwards (level with the steering wheel): "+" position

Corrects automatic driving mode by shifting into higher gears.

Back (level with the steering wheel): "-" position

Corrects automatic driving mode by shifting into lower gears.

Towards you (as when "flashing the headlights"): "A/M" position

Push the selector once to switch from automatic mode to permanent manual mode or vice versa.



The system refuses to engage gears which can lead to an engine overspeed or underspeed.

Starting gear

Move ring (2) on gear selector (1) from "N" to "D".

In automatic mode, the system engages the optimum starting gear as a function of the vehicle load and the gradient of the road.



The starting gear can be changed but the use of an unsuitable higher gear could result in premature wear of the clutch. The gear ratio selected by the gearbox may be corrected within an upper limit of two gear ratios, 5th gear is the highest selectable gear ratio, or 6th gear if using a power take-off.

Hill starts

Start the engine, the correct gear will be engaged on shifting into mode "D".
Depress the accelerator pedal.
The vehicle moves forwards.

Starting downhill

Start the engine, the correct gear will be engaged on shifting into mode "D".
The vehicle moves forwards (the clutch engages).



If you move the selector from position "N" to "D" while the vehicle is moving forwards, the system chooses a ratio suitable for the speed at which it is moving and the clutch engages.



If shifting from "N" to "D" takes place when the vehicle is travelling in reverse gear, the system will slow the vehicle to a stop to allow shifting into forward starting gear.



It is not recommended to allow the vehicle to roll back with the gear selector in the neutral position.

Changing into neutral

The gearbox automatically shifts into neutral position when switching the ignition off (engine stopped).



Engine retarder

It is not necessary to deactivate the engine retarder when shifting gear. The system deactivates then reactivates it automatically at the end of each gear shift.



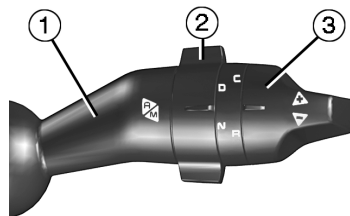
During some gear shifts, the engine retarder is activated by the system to improve the gear shifting time.

Stop

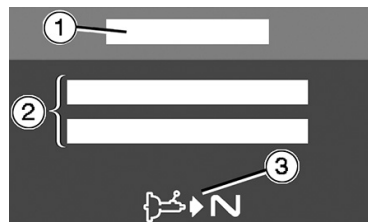


With the engine running, before leaving the vehicle:

- move ring (2) on gear selector (1) to position "N",
- engage the parking brake.



If the driver opens their door to leave the vehicle while position "D" is selected, the information area concerned (1) is displayed, together with a message (2), an audible signal and a pictogram (3) prompting you to select position "N".



Stopping and shutting down the vehicle

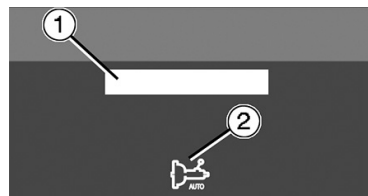
When the vehicle is completely immobilised, engage the parking brake, position ring (2) on gear selector (1) in position "N" and stop the engine with the ignition key.

Clutch protection

Any clutch overheating incident is reported by displaying a warning pictogram (2) and a message "CLUTCH OVERHEATING" (1).

Excessive use of clutch slip is no longer possible.

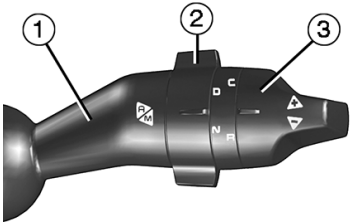
- On acceleration the clutch is engaged, which could cause the engine to stall.
- If you release the accelerator during the slip phase, the clutch disengages.



If warning pictogram (2) is displayed during the clutch engagement phase and the vehicle is moving, continue to drive to cool the clutch.



If warning pictogram (2) is displayed during the clutch engagement phase and the vehicle is not moving, reduce the engine speed to idling and hold ring (2) of lever (1) on "D" until the warning pictogram (2) is no longer displayed.



To prevent clutch wear:

- accelerate enough to start,
- use the starting gear selected automatically by the system or a lower gear.



Never use the accelerator pedal to hold the vehicle immobile on a hill.

Overspeed protection

The system prevents the engagement of gear ratios that could result in overspeed.

Operating faults

Dashes (1) are displayed when the current gear selection is incorrect, not available or outside of expected values.



Dynamometer mode (2 wheels)

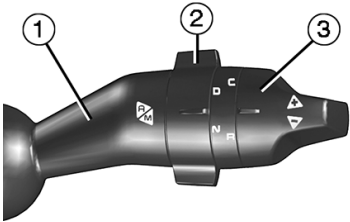
After installing the vehicle on the rollers.

With the vehicle stationary, engine running:

- move ring (2) on gear selector (1) from "N" to "D",
- fully depress the accelerator.

The engine will accelerate up to its maximum speed. After a few seconds, gear shifts will be made automatically.

The gearbox is now in its "test bench" mode.



Information:

- upshifting: the gears will shift 2 by 2 at approximately 1700 rpm;
- downshifting: on deceleration, the gears will shift at around 1100 rpm.



Gear shifting is not optimised. The dynamometer mode does not permit fuel consumption measurements.

Exiting dynamometer mode

Dynamometer mode is exited:

- once the vehicle front wheels are turning;
- 10 seconds after the ignition is switched off at the key.

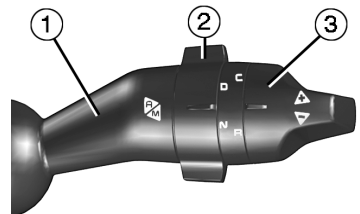
The normal gear shift mode is restarted.

Activation in low temperatures

In external temperatures below -20°C , let the engine run for 10 minutes to reach gearbox operating temperature.

Integral automatic mode

Whenever the engine has been started, when you move ring (2) on gear selector (1) from position "N" to position "D", suitable starting gear (4) and the information "Auto" (5) are displayed by default.



Shifting by one or more gears is performed automatically as a function of the accelerator pedal position.

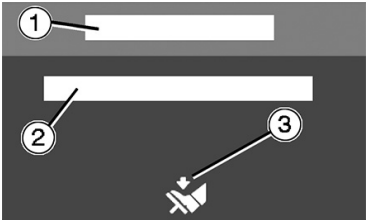




For upshifting, let the system manage the gear changes, even if you feel the engine speed seems too low.

Use downhill

When slowing the vehicle (brake or retarder(s) actuated), if you are driving down a steep downhill route and the engine speed is high (close to engine overspeed) and the accelerator pedal is released completely, there is no automatic gear shifting; this allows the driver to maintain control of the vehicle speed. In this scenario, the information section concerned (1) is displayed with an associated message (2) and pictogram (3) indicating the procedure to follow.



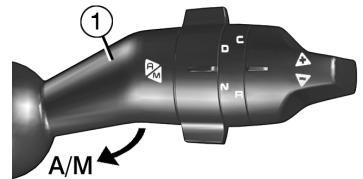
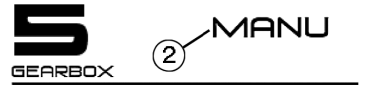
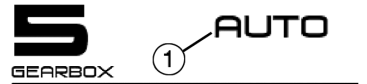
With the retarder(s) inactive and brake not applied, if you are running downhill, the system will automatically upshift in order to protect the engine from an overspeed and to optimise vehicle acceleration.



Depressing the accelerator pedal firmly would be interpreted as a request for maximum mobility and therefore have the undesirable result of shifting up several gears.

Permanent manual mode

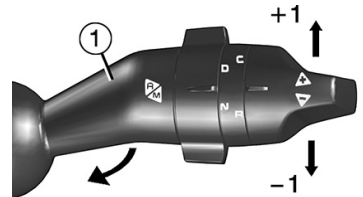
To switch from automatic mode ("Auto" (1) message displayed) to permanent manual mode ("Manu" (2) message displayed) or vice-versa, push "A/M" on the selector lever towards you. This can be switched with the vehicle stationary or being driven.



Changing gear

Changing a single gear:

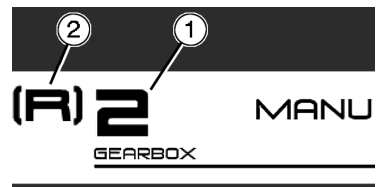
to shift up or down by a single gear, actuate selector (1) at the side of the steering wheel upwards (+) or downwards (-).



It is possible to request skipping several gears by linking together as many successive presses needed for the required gear, the system will automatically limit the gear to be engaged according to the risk of under-revving or over-revving.



In the event of changing gear or vehicle direction, the system can display the gear requested (2) in addition to the gear engaged (1).





If there is a request to change direction, if the vehicle is not stopped within a period of 5 seconds, this request will be disregarded and the display of the requested gear will be cleared.

If the speed is above 10 km/h, the request will not be accepted and there will be no specific display.

In forward gear at low speed, or when stationary, reverse gear can be selected:

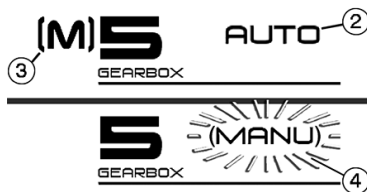
- bring the **"R/C"** selector ring to the **"R"** position.

In reverse gear at low speed, or when stationary, forward gear can be selected:

- move the **"R/C"** selector ring into position **"C"**; 1st gear is selected in manual mode;
- pull selector (1) towards you in the **"A/M"** direction; automatic mode is activated with the starting gear.

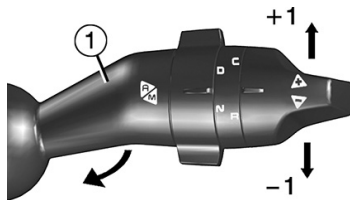
Temporary manual mode

The vehicle is moving, in **"AUTO"** mode, information (2) is displayed. If you wish to shift the gear ratio engaged by the system in anticipation of a change in the road topography, you may shift up or down by one or more gears by combining as many successive presses using selector (1) for the number of gear shifts required (+) or (-), without requesting manual mode. Information (3) then **(MANU)** (4) are displayed: the vehicle is in temporary manual mode.



There are several ways of returning to **"Auto"** mode:

- take your foot completely off the accelerator pedal and depress it again;
- activate the **"cruise control"** feature;
- activate the retarder control **"max"** mode;
- move selector (1) towards you in the direction of **"A/M"**.



When the statutory road speed is reached or when the vehicle stops, the gearbox will be operating in automatic mode again.

Limp home mode (selector disconnected or broken)

You may select neutral by applying the parking brake.

In AUTOMATIC mode you can engage the starting gear by taking the parking brake off then depressing the brake pedal.

In both cases, go to the nearest RENAULT TRUCKS garage.

Retarder

The auxiliary brake is a brake function in addition to the truck's normal service brake. It works in the truck's drive system, as exhaust brake or retarder.

Use the auxiliary brake to avoid overheating in the wheel brakes and to reduce wear on the brake linings.

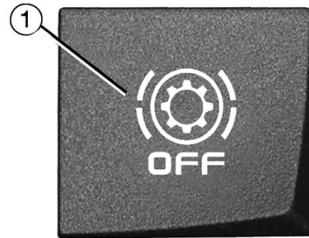


Always select the gear ratio that allows you to use the engine at its most efficient speed. If the road surface is damaged, use the retarder function if possible.

Never coast downhill in neutral.

Do not use the retarder function on slippery road surfaces.

Deactivate automatic operation via switch (1).

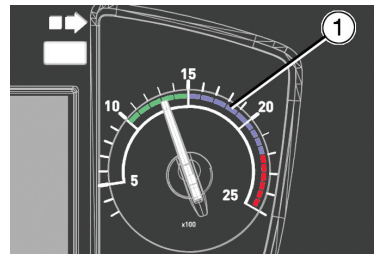


An indicator (1) informs you of the position of the retarder control.



While the retarder function is active, a blue sector appears in the tachometer (1). This blue sector indicates the maximum efficiency band of the retarder(s).

The engine braking and prop shaft retarder are prohibited in ABS and ESC phases.



Never let the engine speed reach the red zone (engine overspeed).

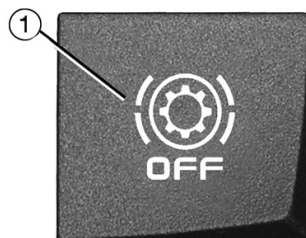
A single control located under the steering wheel activates the different retarders.

Switch

A press on control (1) deactivates the automatic function of coupling the retarder with the foot brake (main brake).



Each time the vehicle is restarted, the coupling of the retarder with the foot brake is active, control (1) is therefore used for uncoupling and recoupling.



The exhaust, engine and gearbox-mounted retarder function is active each time the brake pedal is actuated if the retarder control (1) is in position 0.



The retarder function is deactivated when the brake pedal is depressed for the first 5 times after the ignition is switched on.

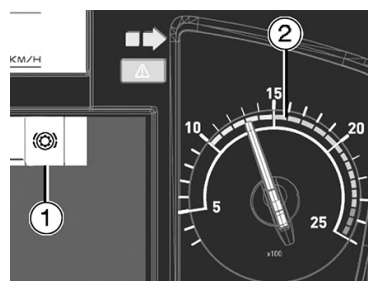


The braking power is modulated as a function of the vehicle load and the pressure exerted on the brake pedal. Indicator pictogram (1) is no longer displayed.

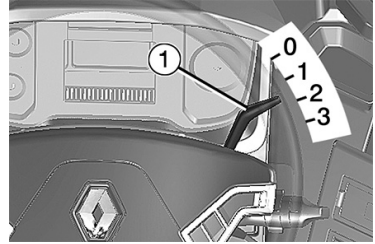
Coupling of the retarder and the cruise control (constant speed)

Indicator pictogram (1) is displayed, as well as the rev counter blue sector (2) if the gearbox and/or engine retarder functions are active.

See chapter **Driving**.



Depending on the change in gradient, select the gear for descent using the gearbox combinations. To slow the vehicle speed, release the accelerator pedal and move control (1).

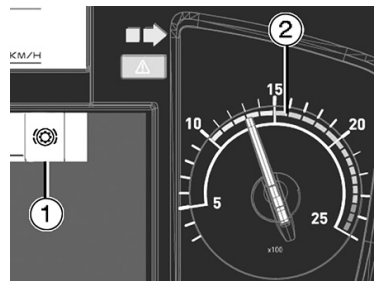


- Position 0:

The feature is not active: indicator (1) and the rev counter blue sector (2) are not displayed.

All the selector positions, except for 0, with action on the accelerator pedal.

The exhaust brake plus engine retarder feature is pre-selected but not active: indicator (1) and the blue zone on the engine operating speed indicator (2) are displayed.



- Position 1 without action on the accelerator pedal:

The exhaust brake plus engine brake feature is active at about 50% of torque efficiency depending on vehicle load: indicator (1) and the rev counter blue sector (2) displayed.



The blue sector indicates the maximum efficiency band of the retarders.



Never let the engine speed reach the red zone (engine overspeed).

- Position 2 without action on the accelerator pedal:

The exhaust brake plus engine brake feature is active at 100% of torque efficiency: indicator (1) and the rev counter blue sector (2) are displayed.

- Position 3 (MAX mode activated) without action on the accelerator pedal:

The exhaust brake plus engine brake feature is active at 100% of the maximum torque possible: indicator (1) and the rev counter blue sector (2) are displayed.



The engagement of "MAX" mode controls downshifting of the Optidriver gearbox, enabling the engine speed to be raised and thus increasing deceleration. This position is unstable.

Differential locks

The differential lock forces the drive wheels on the same axle to rotate at the same speed. Sometimes the differential lock is required in order to maintain traction when driving in road slippery conditions (for example, ice, sand, mud). Only use the differential lock at low speeds and without turning the truck.

Note that differential locks make steering more difficult, and the vehicle does not react as fast to changes in direction.

You should only engage the differential locks when the grip conditions require it (risk of breaking axles and accidents).

Locks should be disabled as soon as possible, in the reverse order to engagement.

Do not use:

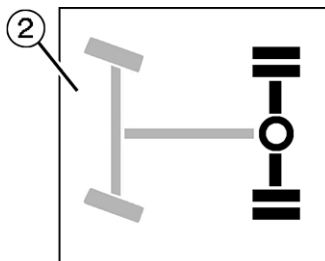
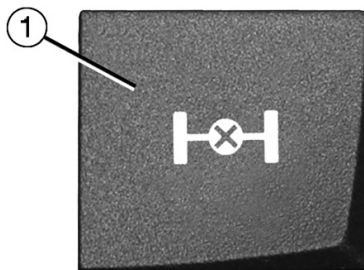
- on ground with good adherence (road),
- on bends:
- when the vehicle is fitted with a non-skid device (chains, etc.).

Engagement of differential locks

On surfaces with low levels of grip or when approaching a slippery section of the roadway (while driving, without altering your driving speed, at a vehicle speed below 30 km/h), press switch (1); pictogram (2) is displayed once the differential lock is engaged.

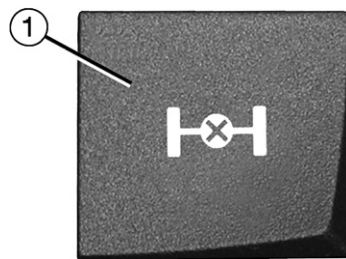


A drop in engine speed may occur if the engagement conditions are not met.



Disengagement of differential locks

Press button (1). Indicator pictogram (2) should no longer be displayed. If it is, turn slightly to the left and to the right while driving slowly to disengage the dog clutch and make the pictogram disappear.



The differential lock disengages automatically as soon as the speed is greater than 35 km/h.

Engine stop

To avoid any damage or risk of accidents, please follow the engine stopping sequence as described here.

Apply the parking brake and make sure that the gearbox is in neutral. Always wait for the engine to return to idling speed before switching off.

Press the STOP/START button to stop the engine. The vehicle switches to Living Mode when the engine is stopped and the ignition is switched off.

Set the vehicle into low consumption mode using the remote control.

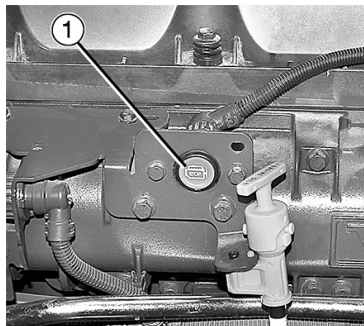
If the tachograph printer drawer is open when the ignition is switched off, the buzzer sounds, warning (1) is displayed and message (2) "printer open" is displayed. Close the tachograph printer drawer again.



When the engine is stopped, an AdBlue circuit drain cycle is performed automatically.

During this operation, the pump can be heard operating.

Engine stop control (1) (cab tilted).



Automatic engine stop

The engine is switched off automatically when it is running at idle speed in order to save fuel, i.e.: 5 minutes after the parking brake has been applied.



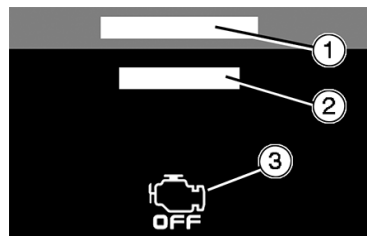
This function shall be inhibited if the accumulator battery level is too low.

90 seconds after switching off automatically, a warning signal is sounded.

An associated message (2) and indicator (3) appear in the automatic engine stop information area (1) of the multifunction display.

The following conditions must be fulfilled in order for the engine to be switched off:

- The parking brake is applied;
- Fast idle is not active;
- No power take-off is engaged.



The timed periods of 90 seconds and 5 minutes may be adjusted by an approved **RENAULT TRUCKS** workshop.

Timed period and interruption

The timer is reset when the accelerator or brake pedal is depressed fully.

The function is reactivated if the wagon moves off or is restarted.



The engine stop function has no effect on the other functions; such as work lights, for example.



Switch off the ignition to prevent the accumulator batteries from discharging.



Air suspension

Air suspension

The truck has full air suspension instead of leaf spring suspension. The quality of air in the bellows can be adjusted; it determines the height of the chassis above ground.

The air suspension is controlled electronically and keeps the truck at the same height irrespective of the weight and the position of the load. The height can be controlled manually using the control box.

On starting, the pressure in the air tanks must be greater than 8 bar for the air suspension to work. The air suspension is activated after having released the parking brake or when the control box or an air suspension switch is used. None of the suspension functions work before the system has been started in one of the following ways.

The air suspension system can be adjusted in two different modes, driving mode or manual mode. **Driving mode** means that the truck is ready to drive and the control box has not been activated. When a button is activated on the control box, the system switches into manual mode. **Manual mode** means that the system is ready to modify the truck height. The air suspension system can be adjusted manually when the truck is at a standstill or driving at less than 10 km/h.

Operations

- **Automatic mode**

The system adjusts the chassis level to the ride height as soon as the speed exceeds 10 km/h.

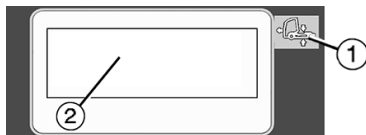
- **Manual mode**

Operation in manual mode is only possible below 10 km/h.

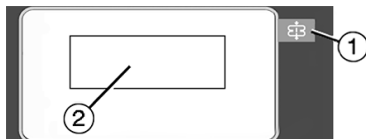
Manual mode allows the chassis height to be positioned to the level required.

Automatic mode is resumed via the "Return to ride height" button on the remote control unit or when the speed is above 10 km/h.

- Warning pictogram (1) and an information message (2) are displayed if the vehicle fails to return to its driving position.



- Warning pictogram (1) and a warning message (2) are displayed when a fault is identified. The ECU safety function automatically neutralises the control system partially or completely.



On the road

Warning pictogram (1) and message (2) indicate a suspension fault.

When stationary

Warning pictogram (1) and message (2) indicate a suspension fault. Carry out a test (refer to the **Test operation** section).

Remote control unit

Location of remote control (1) inside the cab.



Coupling/uncoupling a trailer to/from a vehicle equipped with air suspension

To uncouple the trailer:

- set the vehicle to the raised position;
- lower the trailer struts;
- unlock the fifth wheel coupling;
- move the vehicle forward slightly to release the kingpin;
- lower the vehicle slightly until the fifth wheel detaches;
- release the tractor, then set the vehicle to the normal position before driving.

To couple the trailer:

- adjust the height of the fifth wheel before coupling the vehicle;
- carry out a traction test (refer to the **Fifth wheels and work lamps** section);
- when coupling is complete, set the vehicle to the raised position.
- reposition the trailer struts;
- set the vehicle to the normal position before driving.

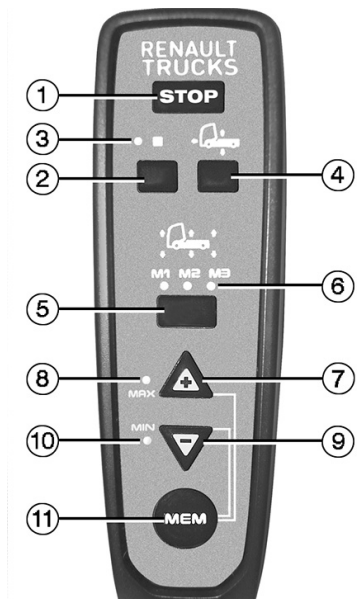
The remote control can be used to raise or lower the rear suspension and return the vehicle to the road position.

The remote control is operational if:

- air pressure is greater than 8 bar,
- speed is less than 10 km/h.

Control buttons:

- (1) - "STOP" control button.
- (2) - Modify ride height control button.
- (3) - Ride height modification function save indicator light.
- (4) - Ride height return control button.
- (5) - Selection control button: "Final drive axle and axle(s)"/"Stored heights"
- (6) - "Drive axle and axle(s)"/"Heights stored in memory" selection indicators.
- (7) - Raise control button.
- (8) - "Raise" control activation indicator light.
- (9) - "Lower" control button.
- (10) - "Lower" control activation indicator light.
- (11) - "Memory store/recall" control button.



Using the remote control box

Exit the vehicle from low consumption mode or actuate the master switch.

Switch on the ignition (if the air pressure is inadequate, start the engine).

Suspension height adjustment

Using control button (5), select:

- the front suspension,
- the rear suspension,
- the front and rear suspensions.



Without operating selection control button (5), any action on "raise" (7) and "lower" (9) control buttons will act simultaneously on the front and rear suspensions.

"Raise" function

To raise the suspension, press control (7).

Simultaneously pressing control buttons (11) and (7) illuminates indicator light (8); you can release the control buttons; the suspension will rise automatically until it reaches the stop position.

"Lower" function

To lower the suspension, press control (9).

Simultaneously pressing control buttons (11) and (9) illuminates indicator light (10); you can release the control buttons; the suspension will lower automatically until it reaches the stop position.

Memorize a loading bay level

To memorise a loading bay level, you must first adjust to this level using control buttons (7) and (9).

Once the height required is reached, select the required memory with control button (5), press button (11) for at least 5seconds, then release.

The required height is stored in memory.

To recall this height, simply select the corresponding memory with control button (5) then press button (11) for at least 2 seconds, but less than 5 seconds.

Return to ride height

To recall the ride height, press control button (4).

Stop

The "stop" control can stop the suspension movement at any time.



In the event of danger, it is possible to stop all movement immediately by pressing control button (1).



If the electronic system estimates the speed of movement as too fast, it limits it by cutting the air flow.

Standby

After switching off the ignition with the key, it is possible to put the suspension in "Standby" mode by pressing any button on the remote control except "Stop" button (1).

The suspension position remains stabilised for 1 hour. The suspension height can also be adjusted by means of the "Raise" (7) and "Lower" (9) control buttons. The function remains operational for as long as there is sufficient air pressure inside the reservoirs.

Pressing "Stop" control button (1) for 2 seconds stops the "Standby" mode.

Recalling the default ride height

Press control button (2) and check that indicator light (3) lights up. During this phase, the chassis position may change.

Next, press control button (9) for at least 2 seconds but no more than 5 seconds, then release it.

The default ride height is recalled. Press control button (2) to exit this function.

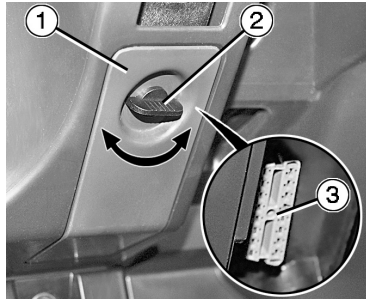
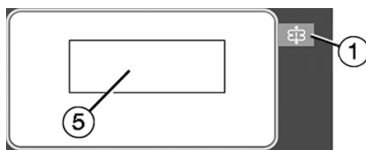
Test operation

Deactivate and activate the ECUs or switch the master switch off and back on again (interruption of 10 seconds).

If warning pictogram (4) illuminates again with message (5) reporting that the suspension is in limp-home mode, consult the nearest RENAULT TRUCKS garage.

Drive at a low speed (20 km/h maximum) and take extra care, maintaining safety distances.

Fault finding and maintenance is to be carried out using the RENAULT TRUCKS diagnostic tool plugged into diagnostic socket (3).



If warning pictogram (4) and message (5) are no longer displayed, the minor fault is cleared. Nevertheless, contact your RENAULT TRUCKS garage.



Any operation on the sensors, control linkage or replacement of the ECU requires a settings and configuration operation. This work should be carried out at a RENAULT TRUCKS garage.



External equipment - control/
management

Roof deflector

Make sure that your roof air deflector is always in the right position. The latter can adapt to several box heights and gives you significant fuel savings if it is properly adjusted.

Adjustment

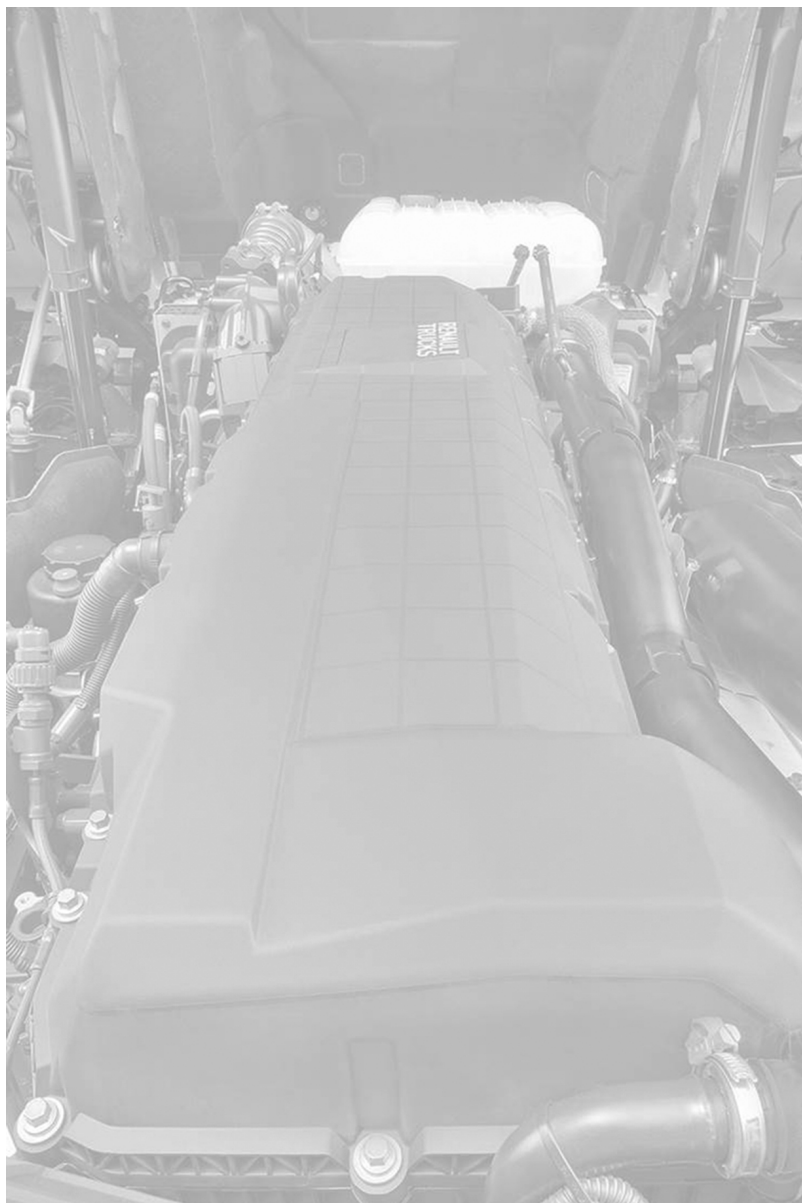
The roof-mounted deflector must be correctly adjusted in order to reduce air resistance. This reduces fuel consumption.

The deflector adjustment must be performed at a Renault Trucks garage.



Vehicle equipped with a refrigerator unit:

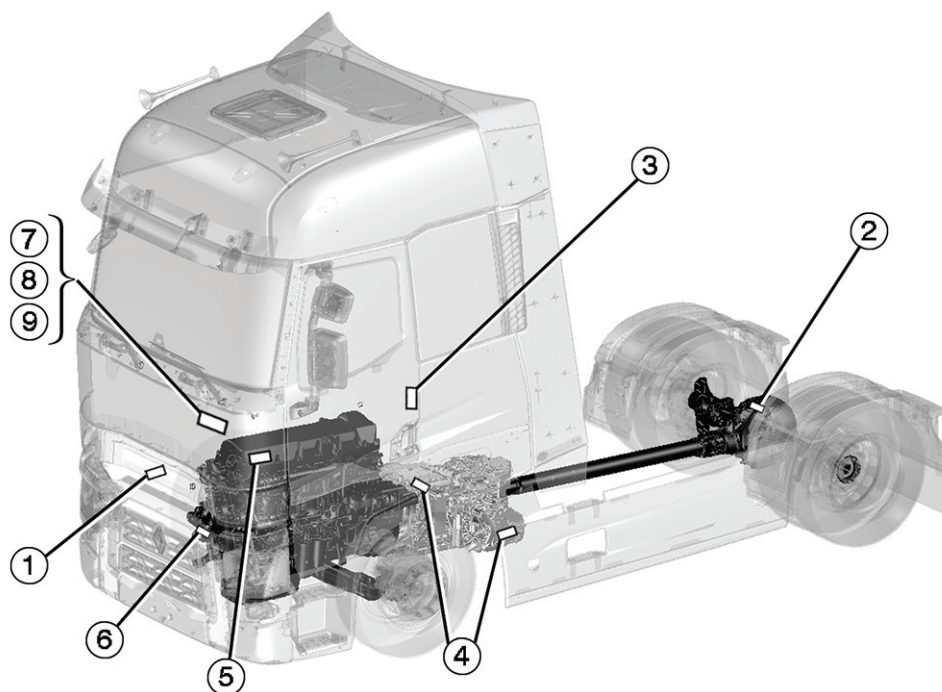
If a roof deflector is installed, ensure that the deflector does not impact on the correct operation of the refrigerator unit (limited cooling of the condenser).



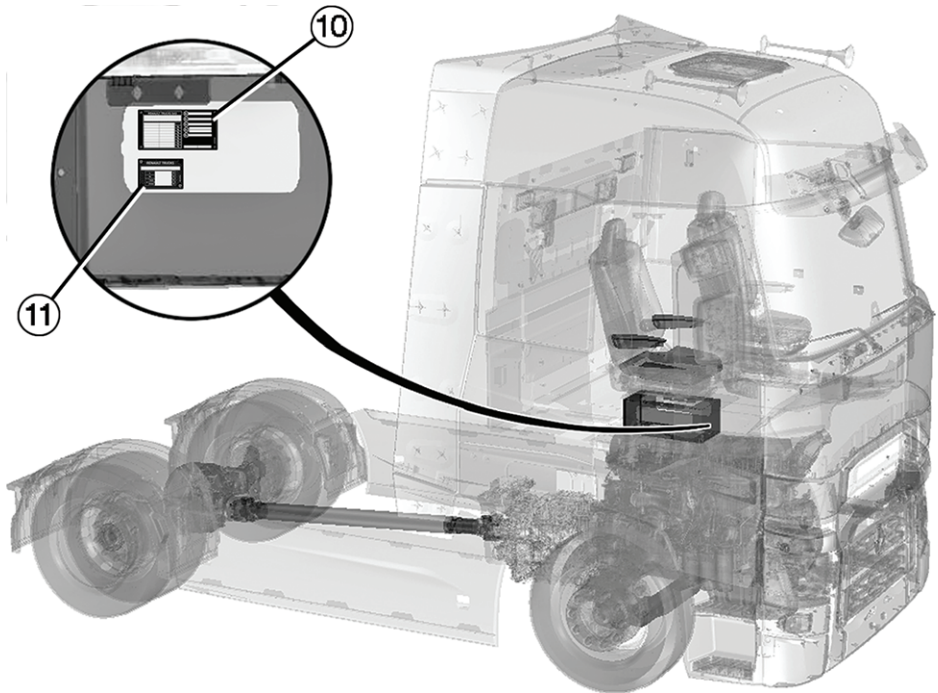
Servicing and maintenance

Vehicle identification

Identification plates are attached to the main parts of your vehicle.



- (1) - Chassis
- (2) - Drive axle
- (3) - Tachograph plate
- (4) - Gearbox
- (5) - Engine
- (6) - Axle
- (7) - CAM reference
- (8) - Paint code
- (9) - Manufacturing number



- (10) - Manufacturer's plate
Pollution index
Headlamp wash label
- (11) - Conformity plate
RTMD-ADR plate

Bulbs

If replacing a bulb, always replace it with a bulb of the same rating and type.

Table of bulbs

Rear parking lights	2x5W
Rear direction indicator lights	21W
Registration plate lamp	10W
Stop lights	21W
Fog light(s)	21W
Reversing light(s)	21W

Replacement of bulbs

Sometimes, it is necessary to replace a bulb to make sure that you can see and be seen on the road. When working with lamps, be careful to avoid any risk of injury, and to preserve the material quality.

Always replace a bulb with an identical bulb.

Your vehicle is fitted with LED lighting. The lifespan of this type of bulb should mean you don't run the risk of them not working but if a bulb does fail, please go to your nearest Renault Trucks garage.

Changing a bulb

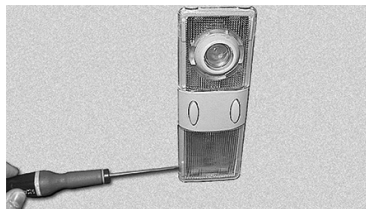
Front headlamp

In the event of a fault on the front LED lights (1), visit a RENAULT TRUCKS garage.



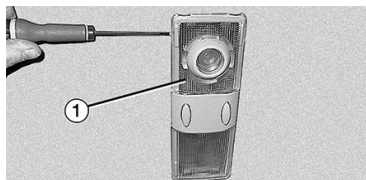
Replacing an overhead light bulb

Unclip the cover glass concerned using a flat screwdriver to access the bulb.



Replacing a reading lamp bulb

Unclip cover glass (1) using a flat screwdriver to access the bulb.



Replacing bulbs in tail lights

Unscrew screw (1) and extract the diffuser to access the bulbs.

(2) - Side light

(3) - Direction indicator

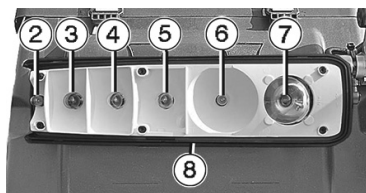
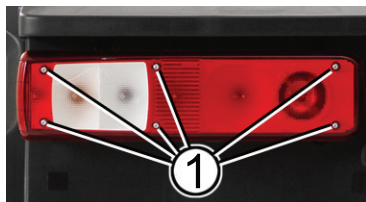
(4) - Reversing light

(5) - Side light

(6) - Stop light

(7) - Fog light

(8) - Number plate lighting

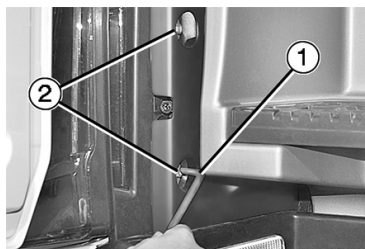


Use the dipped beam headlights in accordance with the applicable highway code

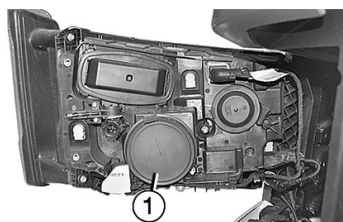
When you drive in a country where traffic drives on the opposite side of the road compared to your country, your asymmetric dipped beam lights can dazzle drivers coming towards you.

In order to avoid this, the headlamp is fitted with a system for modifying the light beam emitted.

To access the bulbs, loosen screws (2) using wrench (1) supplied in the tool kit and rotate the headlamp unit.



Remove blanking piece (1).



Move lever (1) towards the bulb and manipulate it in order to modify the light beam emitted.



There is a risk of burns when working on a headlamp that has just been in operation.

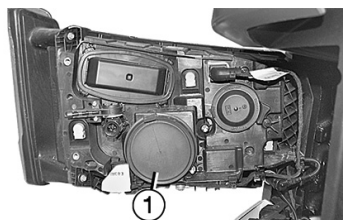
Use suitable protective equipment.



Do not forget to move lever (1) back to its original position when you leave the country.



When carrying out work on the headlamp which required removal of blanking piece (1), refit it carefully to ensure that the headlamp unit is sealed perfectly.





It is strictly prohibited to apply adhesive tape to the headlamp as this could quickly become damaged under the effects of heat.

Fuses

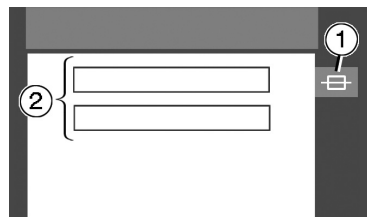
The truck's fuses are designed to protect the electrical system circuits against surges and only generally trip after a short-circuit. Consequently, if a fuse has blown, you should always let an official workshop determine the cause.

In the event of an anomaly on a fuse, warning pictogram (1) and information messages (2) relating to the defective fuse are displayed.

Replace the fuse.

If the anomaly persists, contact a RENAULT TRUCKS garage.

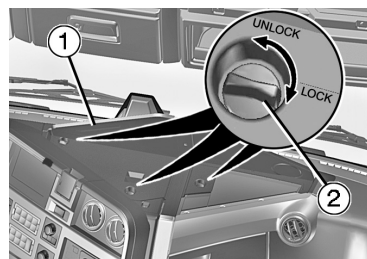
Always replace a fuse with another fuse of the same rating.



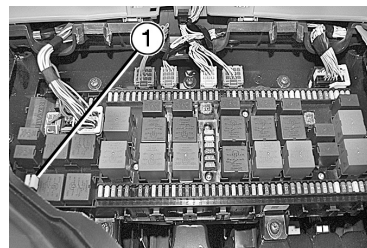
To gain access to the fuses:

- remove mat (1) from the dashboard;
- turn the 3 locks (2) through 1/4 of a turn;
- remove the cover.

After the operation, refit the cover and turn the 3 locks (2) through 1/4 of a turn.



Replace the fuses using fuse grip (1).



Assignment	(F) Marks	amps
12 V sockets	F01	10
Not used	F02	
Television power supply pre-arrangement	F03	10
Trailer socket	F04	15
Bodybuilder pre-arrangements on chassis	F05	15
Power supply to switches for bodybuilders	F06	5
Bodybuilder connection unit	F07	30
Bodybuilder connection unit	F08	20
Not used	F09	
24V socket on overhead ledge	F10	15
Remote lights pre-arrangement	F11	15
Rotating beacons	F12	15
Heated seat	F13	10
Hours counter	F13	10
Alco lock (breathalyser)	F13	10
Not used	F14	
Roof customization lights pre-arrangement	F15	10
Roof customization lights pre-arrangement	F16	10
Not used	F17	
Heating management ECU	F18	3
Bodybuilder unit power supply	F19	15
Passenger side door module (door, window lift, and rear-view mirror control)	F20	20
Secondary screen	F21	3
Sun blinds	F22	5

Day-to-day maintenance

Assignment	(F) Marks	amps
Tachograph	F23	3
Information display	F24	3
Motorway toll box power supply	F25	3
Not used	F26	
Vehicle management ECU	F27	10
Vehicle management ECU	F28	20
RH rear-view mirror de-icing	F29	10
LH rear-view mirror de-icing	F30	10
Driving assistance ECU	F31	5
Air production management	F32	10
Not used	F33	3
Working spotlight	F34	5
Not used	F35	
Not used	F36	
"EBS" ECU	F37	20
Air conditioning and parking heater control plate	F38	20
Fuel heating sheath	F39	20
Tachograph	F40	3
Engine management ECU	F41	15
Engine management ECU	F42	15
Fuel filter heater	F43	10
Engine management ECU	F44	10
Cab tilting	F45	30
Trailer "ABS/EBS" socket	F46	20
Not used	F47	

Assignment	(F) Marks	amps
Not used	F48	
Microwave oven pre-arrangement	F49	50
Coffee maker pre-arrangement	F50	30
Windscreen wiper motor	F51	20
Roof hatch	F52	15
Accessories (reversing camera)	F53	5
Not used	F54	
Alarm	F55	3
Main bodybuilder power supply in overhead ledge	F56	10
Interior cab lighting	F57	10
Bodybuilder pre-arrangements (tailgate or crane)	F58	20
24V/12V step-down transformer in overhead ledge	F59	15
24V/12V step-down transformer in dashboard	F60	15
Driver's side door module (door, window lift, and rear-view mirror control)	F61	20
Diagnostic socket (OBD)	F62	5
Cab management ECU	F63	10
24V socket on dashboard	F64	15
Bunk 24V socket	F65	15
Onboard management	F66	3
Cigarette lighter	F67	15
Vehicle management ECU	F68	15
Parking heater	F69	15
Power supply to robotised gearbox ECU	F70	15
Headlamp washer pump	F71	15

Assignment	(F) Marks	amps
Not used	F72	
Bodybuilder connection unit	F73	30
Bodybuilder connection unit	F74	20
Refrigerator pre-arrangement	F75	10
Trailer interior lighting	F76	15
Not used	F77	
Not used	F78	
Not used	F79	
Bunk remote control unit	F80	3
Not used	F81	5
Not used	F82	
Not used	F83	
Not used	F84	
Onboard management	F85	3
Not used	F86	
Not used	F87	
Alco lock (breathalyser)	F88	5
Not used	F89	
Not used	F90	15
Onboard management	F91	10
Replacement fuse	F92	50
Replacement fuse	F93	30
Replacement fuse	F94	20
Replacement fuse	F95	15
Replacement fuse	F96	10

Assignment	(F) Marks	amps
Replacement fuse	F97	5
Replacement fuse	F98	3

Windscreen wiper blades

The windscreen wipers contribute to good road visibility and therefore to your safety. Make sure that they are always in tip top condition.

Replacing a windscreen wiper blade

Lift the windscreen wiper arm.

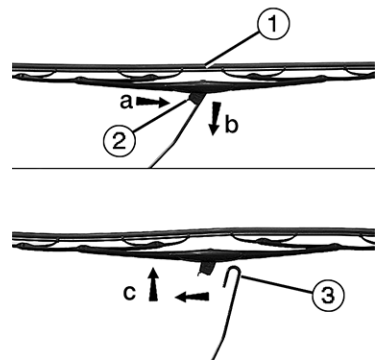
Tilt blade (1) until horizontal.

a - Pull on tab (2).

b - Pull blade (1).

c - Release hook (3).

To install, proceed in the reverse order to removal and ensure that tab (2) is secured.



Warranty

The maintenance instructions contain information on the preventive operations that the driver should perform to keep a vehicle reliable and safe.

However, the servicing described in these instructions does not cover everything.

Numerous points are included in the services provided by the RENAULT TRUCKS garages.

When purchasing a vehicle, a service programme is set up. The programme is based in particular on the type of wagon and its use in transport applications, the driving conditions, oil grades, environment and legislation in force in each country.

These are all unique factors for each vehicle. Therefore, we recommend that you contact the RENAULT TRUCKS network to optimise maintenance.

If the initial conditions necessary for setting up the servicing programme are modified, the programme should be corrected. Contact your RENAULT TRUCKS garage.

Servicing is the prime guarantee

The tougher the operating conditions, the shorter the service and inspection intervals. In some cases, it is necessary to take account of hours of operation rather than mileage. The manufacturer cannot be held liable for incidents resulting from driving errors or failure to observe the instructions contained in this handbook, particularly if lubricants not meeting the performance level required are used for lubrication.

For all maintenance operations, consult a RENAULT TRUCKS garage.

Topping up engine oil



Top up the engine oil with RENAULT TRUCKS OIL RLD-3 grade oil until the first engine oil change is reached. Subsequently, the choice of oil to be used is defined by the customer depending on the use of the vehicle.

The implementation of these operations is essential for the validity of the vehicle warranty.

To benefit from this, consult a RENAULT TRUCKS garage and give them the warranty certificate you received when the vehicle was delivered.

Lubrication

The manufacturer defines the lubricant performance level necessary for the smooth functioning of the vehicles he manufactures. The manufacturer also defines the frequency of the lubrication operations.

These recommendations must be strictly followed.

Observing them will increase the service life of the equipment and components. Failure to comply can invalidate the warranty offered.



Draining major units: always drain oil on level ground, with the oil hot to aid the flow.

When refitting drain plugs, fit new seals.

Checking the oil levels (all components).

Oil levels must always be checked in identical conditions (vehicle unladen or laden), on flat ground, and at least 5 minutes after the vehicle has stopped.



Engine oil level: *for a more accurate reading, the engine oil level should be checked when the engine is cold, after a prolonged shut-down (2 hours minimum), in the morning, prior to start-up, for example; otherwise, check the oil level with the dipstick.*

- *Vehicle with mechanical suspension: check the level with the vehicle unladen.*

Vehicle road tests

After the warranty inspection, the vehicle manufacturer should make sure that the user clearly understands all the operating instructions in the handbook.

Fuel

Diesel

The quality of fuel is important for the technical and environmental performances of the vehicle.

Poor quality fuel will affect the durability of the engine and may result in the vehicle not meeting engine emissions control standards.

Fuel quality is very important for vehicles equipped with particulate filters (EATS) and the exhaust gas recirculation system (EGR), it is therefore important to use a fuel that complies with national and international standards.

The European EN 590 standard must be complied with, it comprises the legal requirements for fuel stipulated in directive 98/70/EC and for EU fuels (2009/30/EC edit.).

European standard EN 590 requires that national standardisation bodies (AFNOR for France, DIN for Germany, BSI for the UK, etc.) define the viscosity classifications, in accordance with national climatic and seasonal demands.

When adopted nationally, the standards are designated NF-EN 590 (France), DIN-EN590 (Germany), BS-EN590 (United Kingdom), SS-590 (Sweden), etc.

Sulphur content

For diesel engines, sulphur in the fuel contributes to the formation of particulate matter. This is damaging to vehicles equipped with diesel particulate filters (EATS) and exhaust

gas recirculation systems (EGR). It is therefore necessary to use a sulphur-free diesel fuel (< 10 ppm).



Use only diesel fuel compliant with the EN 590 standard for motor vehicles.

National regulations authorise oil companies to add a certain proportion of biodiesel to diesel fuel (fossil diesel).

Adding biodiesel to commercial diesel will increase pollutant emissions and engine wear.

If diesel fuel is stored locally in tanks, it must be filtered to ensure that it is free from any contaminants before filling the vehicle tank(s). If water is present in the diesel fuel, do not use it.

It is strictly forbidden to use AquaZole.

For specific cases, contact a RENAULT TRUCKS garage.

Biodiesel

Biodiesel (VOME, Vegetable Oil Methyl Ester complying with the EN 14214 standard) is widely used as an additive in diesel fuels.

VOME has characteristics which make it less suitable as a fuel due to its hydrocarbon components: less stability, poorer properties at low temperatures and a higher propensity to trap water and bacteria.

The EN 590 standard authorises a maximum content of 7% VOME in fuel.



Some engine variants allow a maximum content of 30% VOME in the fuel; for further information contact a RENAULT TRUCKS garage.

For Euro 6 vehicles, use only fuel compliant with the EN 590 standard (7% VOME maximum).

Diesel fuel antifreeze protection and additive

Use in cold weather

In order to be suitable for various weather and seasonal conditions, the EN 590 standard defines a certain number of "climatic classes" which must be selected on a national scale.

There are different grades of diesel available commercially, used seasonally (winter or summer). The filtration limit temperature "**FLT**" varies depending on the type of diesel fuel used. At temperatures approaching the filtration limit temperature, paraffin crystals are formed in the diesel which clog the fuel supply circuit.

Several winter grades may be chosen, if required, to protect vehicles in all regions throughout the winter season.

The **"CFPP"** classes selected must be suitable for the lowest ambient temperature in a country or region.

Examples of classification by country:

- France: For protection down to -15°C: use diesel category **"E"**.
- Germany: For protection down to -20°C: use diesel category **"F"**.
- United Kingdom: For protection down to -15°C: use diesel category **"E"**.
- Finland: For protection down to - 26/- 32/- 44°C: use diesel category **"ARTIC"** 1/2/4.

Oil companies are still responsible for adapting the **"TLF"** of their fuels to the market.

In exceptional circumstances (extremely low temperatures), a maximum of 20% kerosene may be added to diesel fuel to improve its cold properties.

The kerosene used must be sulphur-free (< 10 ppm).

20 % kerosene lowers the **"FLT"** by 5°C.



Adding petrol or alcohols (methanol, ethanol) is forbidden.

Additives

Modern diesel fuels contain powerful additives added by the oil companies.

Oil companies are still responsible for the quality of the fuels they sell (with or without additives).



They are not authorised to add other additives to the fuel separately.

The use of VOME (Vegetable Oil Methyl Ester compliant with the EN 14214 standard) tends to trap water and risks an increase in bacteria and fungus.

Antibacterial additives may not be added by oil companies during fuel production.

These additives must be added to the tanks of vehicles with bacterial problems.

If it is deemed necessary to treat a vehicle with an antibacterial additive, contact a RENAULT TRUCKS garage.

AdBlue



Use only commercially-available AdBlue motor vehicles (Standard DIN 70070).

Maintenance recommendations



When handling AdBlue, use only type-approved containers and pumps that are clean and used only for this purpose.



Do not reuse AdBlue that has been drained from a tank.



It is forbidden to replace AdBlue by any other product or add any other product to it or else vehicle pollution control will no longer be achieved and you will run the risk of damaging the post-treatment system.



If you note that the AdBlue you are using for your vehicle is contaminated, in no event should you start your vehicle; contact a RENAULT TRUCKS garage.



AdBlue must always be handled with care; it is a corrosive agent.

AdBlue must never come into contact with other chemical products.

If it is spilled on the vehicle or if there is a leak, wipe off the excess with a cloth and rinse with water.



If working on AdBlue system components, protect the electrical connectors and disconnected hoses from any AdBlue spillages using the plug kit available from the Parts store.

In case of AdBlue splashes:

- *on a connector in situ, rinse with water;*
- *on a disconnected connector, replace the connector.*



STOP

IF ANY ADBLUE IS SPLASHED ONTO THE SKIN OR INTO THE EYES, RINSE THOROUGHLY WITH WATER.

IN CASE OF INHALATION, BREATHE FRESH AIR.

CONSULT A DOCTOR IF NECESSARY.

Exhaust gases, Euro VI engines

The exhaust gas treatment catalytic converter heats up and cools down more quickly than a conventional silencer.

This leads to the following consequences:

- The exhaust gases become very hot when driving and when parked with the engine running.



Do not park on flammable materials such as, for example, oil, diesel, dry grass, etc.

- Exhaust gases have a different odour to the exhaust gases of an engine without a catalytic converter. The difference is more noticeable when the engine is cold.
- When starting in low temperatures (up to 5°C), a cloud of white smoke comprising water vapour may appear. This occurs more often on engines without an exhaust gas after-treatment system. Water vapour may also be produced after short stops, but is less noticeable.



Consider that this can, in exceptional cases, inconvenience other road users!



When in operation, the catalytic converter reaches a very high temperature. Wait for approximately 2 hours before carrying out any work on the catalytic converter to allow the temperature to drop to an acceptable level of 50°C.

Risk of burns for operators.

APM

Checking the operation of the air filter.

If the air system warning "high air consumption" message appears on the multifunction display, check that there is no water in the air tanks.

If there is water present in the air tanks, the system should be checked.

Contact a RENAULT TRUCKS garage.

Maintenance schedule recommendations

Following the maintenance recommendations and the quality of the consumables and spare parts to be used for preventive maintenance is extremely important to make sure that your vehicle is working properly and reliably.

If in doubt, contact your Renault Trucks service point.

Lubricants

RENAULT TRUCKS recommends the use of **ECO 5** lubricants (used as original equipment) to obtain saving in terms of fuel economy.

These recommendations meet the requirements of RENAULT TRUCKS to ensure the reliability expected by its customers.

These recommendations cannot be the subject of "**compromise or negotiation**": they are linked to the technical definition of the engines.

Non-compliance with the manufacturer's recommendations in terms of oil change intervals or the use of unsuitable lubricants will considerably reduce the operational safety factor of an engine and can cause serious incidents in the long term.

If such incidents were to occur, RENAULT TRUCKS would not accept the costs of repairing these engines, even for vehicles under warranty.

Adapt the viscosity of the oil used according to the climate conditions of the region where you use your vehicle.

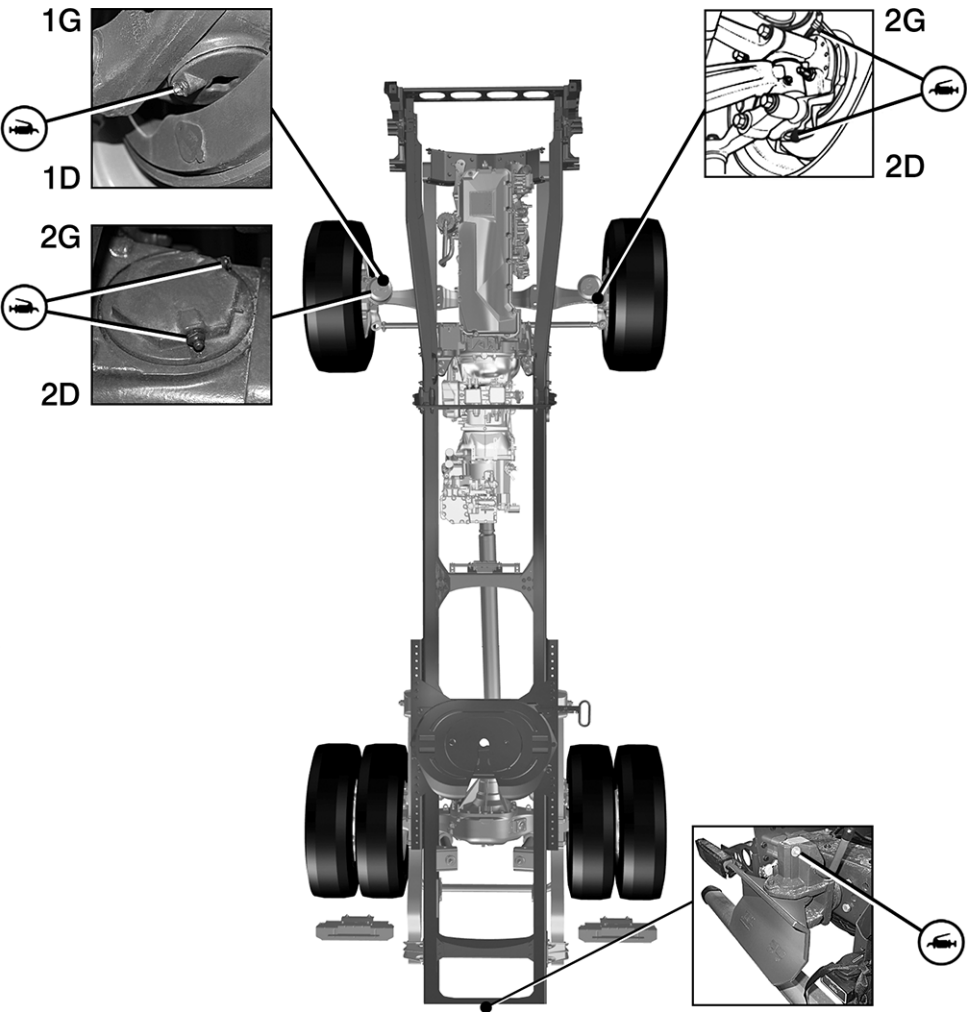
Using an oil of a lower grade will require more frequent oil changes. Your RENAULT TRUCKS garage is at your disposal to advise you.

We recommend RENAULT TRUCKS Oils.

Engine oil filter cartridge(s)

For the correct operation of your engine and to extend its service life, use only genuine filters with a filtration surface and threshold designed by the manufacturer.

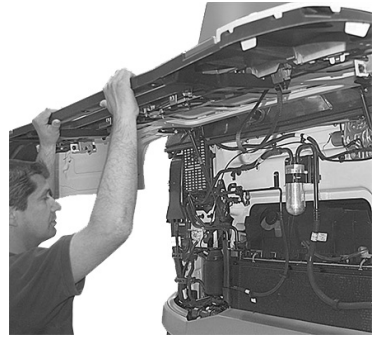
Lubrication diagram(s)



Radiator insect screen

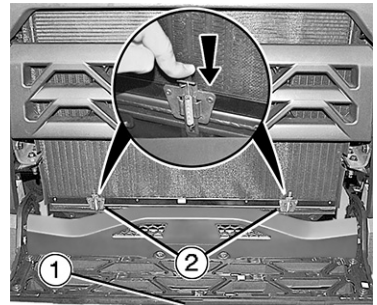
Removal

Open the bonnet.

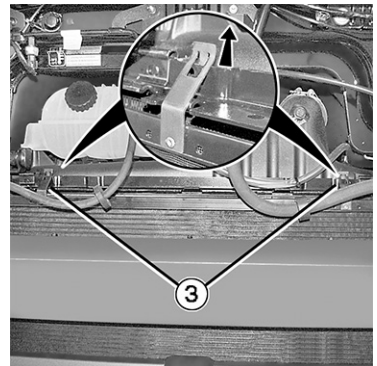


Open the foot board (1).

Press on mountings (2) to unlock the bottom of the insect screen.



Unhook mountings (3) at the top of the insect screen.



Remove insect screen (4).



Cleaning:

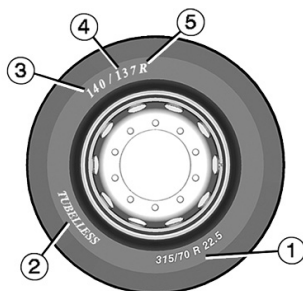
At the onset of spring and summer, clean insect screen (4) by blowing through compressed air, or with warm water. Avoid high-pressure jets.

Assembly:

Ensure the insect screen is attached correctly when assembling. Close the foot board and the cover.

Tyre specifications

1. Type of tyre
2. "Tubeless": no tube
3. Load rating: single wheel fitment
4. Load rating: twin wheel fitment
5. Symbol for tyre's maximum speed



Speed ratings

The following table may be used to find the speed rating symbol applicable to replacement tyres.

Vehicle speed	Symbol
≤ 80 km/h	F
80 - 90 km/h	G
90 - 100 km/h	J
100 - 110 km/h	K
110 - 120 km/h	L
120 - 130 km/h	M



It is prohibited to install tyres with a speed rating lower than that of the tyres fitted as original equipment on the vehicle or those recommended by the manufacturer. However, it is indeed possible to install tyres with a higher speed rating.



For any modification to tyre type, it is essential to reconfigure the braking system. Contact your nearest RENAULT TRUCKS garage.

Have the tachograph calibrated by an approved S.I.M. workshop.

Tightening the wheels

Tightening order

- Disc wheel rims

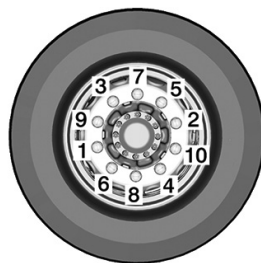
Use a 33 mm socket.

Step 1

Pre-tighten the wheel nuts to $300^{\pm 50}$ Nm

Step 2

Tighten the wheel nuts to $650^{\pm 75}$ Nm



Inspection/Checks

Wheel tightening control torque value: minimum $670^{\pm 30}$ Nm.



Check the tightness of the wheel mounting nuts each time after refitting: after 20 to 30 km then between 150 and 250 km.

Check the tightness of the wheel mounting nuts every 6 months, whether the wheels have been removed or not.

If, when checking, it emerges that a nut is not tightened to the minimum torque of 670^{+30} Nm, loosen all of the wheel mounting nuts and retighten to the recommended torque.

If these basic precautions are not heeded, there is a risk of the mounting nuts loosening and serious consequences may result.

Load and pressure rating of tyres



Your vehicle is equipped with specific tyres. When changing fitment, ensure that the new fitment is compatible with your vehicle by contacting your RENAULT TRUCKS garage.

Rims equipped with protective valve: when removing/installing a tyre, follow the manufacturer's instructions. Make the operative aware of this.

List of load ratings



Whenever replacing tyres, ensure that the new tyre fitment has a load index that can support the maximum axle load of your vehicle.

Size of tyre	Load rating Single / Twin	Load in kg single wheel	Load in kg twin wheel
295/60 R 22.5	150 / 147	6,700	12,300
Size of tyre	Load rating Single / Twin	Load in kg single wheel	Load in kg twin wheel
315/60 R 22.5	154 / 148	7,500	12,600
	154 / 150	7,500	13,400

Inflation pressures



Follow the tyre manufacturer's recommendations. If none are available, use the following indicative pressures temporarily. For chassis intended to be equipped with equipment likely to alter the load per axle, refer to the manufacturer's data with relation to type, brand and application. Observe the load/speed ratings written on the tyre wall.

Tyre dimension	Load in kg according to fitment		Pressure in bar
	Single	Twin	
315/60 R 22.5	6,030	11,240	7.5
	6,390	11,920	8.0
	6,760	12 600	8.5
	7 100	-	9.0
Tyre dimension	Load in kg according to fitment		Pressure in bar
	Single	Twin	
295/60 R 22.5	5,680	10,420	7.5
	6,020	11,050	8.0
	6,360	11,680	8.5
	6,700	12,300	9.0

Helping Hand

Wheels/Tyres

Changing wheels

Precautions to take when fitting wheels to the vehicle:

Before fitting

Clean the wheel rims and hubs very carefully, in particular the contact surfaces (grease, earth, mud, metal swarf, overspray, etc.).

When installing

Oil the shafts and nuts lightly (engine oil). Tighten the nuts progressively using the tool provided with the vehicle. Pull on the arm of the tool to tighten correctly.



Over-tightening could result in damage. In order to avoid exceeding the tightening torque, do not use articles such as: pipes, extension bars, etc.

After installation

Check the tightness of the mounting nuts each time after refitting: after 20 to 30 km then between 150 and 250 km.

If these basic precautions are not heeded, there is a risk of the mounting nuts loosening and serious consequences may result.

Main causes of premature wear of tyres

- driving behaviour (excessive braking, driving over pot holes, etc.);
- vehicle overloading or incorrect distribution of load;
- over-inflation or under-inflation (inflate to the correct pressure for the weight per axle);
- incorrect twin fitment (always twin tyres of the same dimension, same type and same degree of wear);
- incorrect adjustment of the front axle geometry.

Inflation pressure test

Frequency

The tyre pressures must be checked on each refuelling or every 14 days.

Method

Tyre pressures should always be checked on cold tyres.

You must never deflate hot tyres.

Safety

In-service incidents.

Whenever an impact occurs, or whenever you cannot stop quickly following a tyre puncture, it is essential to have the tyre checked promptly by a specialist.



Over-inflation or under-inflation has an impact on fuel consumption.



Only use RENAULT TRUCKS nickelled or chromed valves. When replacing a valve, grease the valve hole and the rim inner seat with grease such as "FREYLUBE, ROCOL. MG or ESSO MOBY".

Snow chains

In some countries, the use of snow chains may differ due to the legislation in force. Comply with the legislation in force in each country.

Snow chains must be installed on driven wheels. For certain types of chains, the tension must be rechecked after several tens of metres have been covered.

Do not exceed the maximum speed authorised for driving with snow chains.

As soon as the roadway is clear, remove the snow chains to avoid damaging the tyres and also to regain optimal braking behaviour and roadholding.



*If you encounter traction problems when driving with snow chains, deactivate the wheel anti-spin regulation ("ASR"); refer to the **Driving on difficult terrain** chapter.*



Use only snow chains approved and recommended by RENAULT TRUCKS in order to prevent damage to the vehicle. Contact your RENAULT TRUCKS garage.

Braking circuit pressure

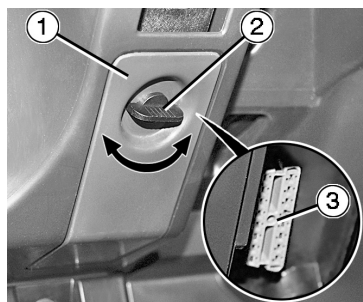
Check system	Reference pressure	
Compressor/Relief valve	Maximum shut-off pressure: 12.5 bar	Minimum interlock pressure: 11 bar
Four-way protection valve	Static closing pressure: 4.5 bar	
Minimum pressure in the braking circuit for calibration	10 bar	

Diagnostic and Infomax "OBD" socket

"OBD" diagnostic socket (3) is positioned under the switches, to the left of the instrument panel.

To access "OBD" diagnostic socket (3), open cover (1) by turning catch (2) through ¼ of a turn.

The diagnostic socket can be used to check the status of the parking heater, using the RENAULT TRUCKS test tool.



Battery banks

The batteries are used to start the engine and they supply all the truck's control units and power consumers. The batteries' condition, i.e. their capacity to take charge and provide power, has great importance on whether the truck performs well and is operationally reliable.

Features - maintenance

Checking the charging status

The alternator cannot charge the battery to 100%; in optimal conditions, the battery can be charged up to 90%.

To maintain the batteries' lifespan, they must be charged externally at least once every three weeks, even if they appear to be fully charged.

For systems that use a lot of battery power when the engine is off, such as tailgate lifts, daily external charging is recommended.

- To avoid deep discharges and permanent battery changes, batteries must never be discharged with less than 50% capacity.
- Externally recharge the batteries regularly.
- Use chargers with charge indicators and sufficient charge currents.



Perform an external charge at least once every three weeks to maintain battery lifespan.



The technical specifications of the batteries have been optimised for the production vehicle configuration. The addition of any additional consumers (climate control, light bar, television screens, etc.) requires electrical diagnostics by a Renault Trucks service point.

For this operation, contact a RENAULT TRUCKS garage.



REMEMBER THAT THE ACCUMULATOR BATTERIES CAN DISCHARGE A LOT OF HIGHLY EXPLOSIVE FLAMMABLE GAS. A SHORT-CIRCUIT, A FLAME OR SPARK NEAR TO A BATTERY COULD CAUSE A LARGE EXPLOSION RESULTING IN PERSONAL INJURY OR DAMAGE TO EQUIPMENT.

Keep the batteries and their connectors clean and free from verdigris.

External top-up charge

Top-up charge the batteries using the external top-up charger at least every three weeks in order to maintain long service life.

In cold climates or if the truck has systems that load the batteries excessively when the engine is switched off, the batteries need charging with the external top-up charger more often.



Save fuel by connecting a top-up charger during overnight stays.

Only use an external top-up charger with charging control and sufficiently high charging current.

The rule of thumb is that the external top-up charger must give a charging current that is 10% of the batteries' amperage. For example, if the batteries' amperage is 170 Ah, the charger must give a charging current of 17 A.

Low temperature

The temperature greatly affects the available capacity of the batteries. At low temperatures the batteries ability to deliver power is significantly reduced.

For example, at -18°C the batteries only have 50% of the capacity available, even if the batteries are fully charged.

When driving in cold climates, charge the batteries more often using a top-up charger. The charging works better if the batteries are charged in warmer ambient temperatures, for example in a garage.

Some smart top-up chargers can compensate for the low chargeability at low temperatures by raising the charge voltage. It uses a temperature sensor to adjust the charging voltage but it cannot fully measure the temperature inside the batteries.

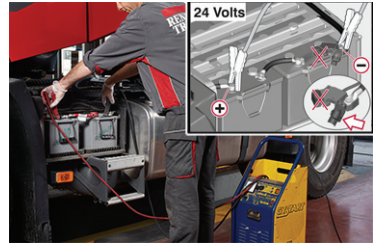
Connect charge cables or jumper cables



Oxyhydrogen gas can build up in the batteries, which is highly explosive. A spark is all it takes for the battery to explode and cause serious injury. Sparks can be produced if a cable is removed from or connected to the battery incorrectly.

Do not lean over the batteries.

1. Remove the plastic guard from one of the battery's positive terminals and connect the positive cable.
2. Open the plastic cover above the ground cable connector by the second battery's negative terminal and connect the negative cable. All voltage must go through the battery sensor.



Make sure the earth connection is clean and free from paint.

Remove charge cables

1. Remove the negative cable.
2. Remove the positive cable.

General information on cleaning

General

Regular cleaning maintains the value of your truck. Remember to wash more often in winter conditions or other dirty driving conditions.



Consider the environment.

Use washing facilities that take care of waste from washing in an environmentally sound manner. Use environmentally friendly cleaning agents as far as possible.

Use of high-pressure washing

High-pressure washing is an effective way to clean the truck. However, you should exercise caution when using high-pressure washing, otherwise the truck and its components could be damaged.

Use high-pressure washing with caution. Penetrating water and dirt may cause damage. The damage occurs over time and the connection with washing is not obvious.

Do not rinse:

- Universal joint cross
- Support bearings
- Slip joints
- Joints
- Seals
- Ventilation for gearboxes, oil reservoirs, etc.
- Connectors
- Electrical components
- Air inlets

Tyres and air suspension bellows:

Pulsating high pressure may damage tyres and air suspension bellows. The damage is not visible but may eventually cause tyres or bellows to rupture.

Radiator:

Clean the radiator with extreme caution. The fins are easily damaged by high pressure.

Sound baffles:

The soft sound absorbing panels around the engine and gearbox must be cleaned with great care. The sound absorbing material is easily damaged by high pressure.



Stop the engine and enter the vehicle into low consumption mode or switch off the master switch before washing the vehicle.

Limit the jet washer pressure to a maximum of 80 bar. For the sound-proofing screens, limit the temperature to 80°C and maintain a minimum distance of 80 mm.



When washing the vehicle, carry out general greasing. Specifically, grease the coupling fifth wheel locking mechanism and the trailer hitch locking mechanism.

Front end

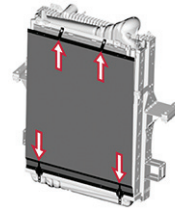
When the bonnet is up, avoid any pressurized water splashes.

Radiator cleaning

During cleaning, the insect net can be removed.



Exercise extreme caution when cleaning so that the cooling plates are not damaged.



Cab washing

The truck should be washed as soon as it becomes dirty, especially during the winter when road salt and dampness can otherwise lead to corrosion.

The following points must be observed in order to avoid paint damage and to achieve good results when washing:

Washing method: Use a pressure washer primarily. For dirt that cannot be removed using this method, try to remove with a brush or sponge and cleaning agent best suited for the type of dirt. You risk scratching the paint using brush-washing without high-pressure washing beforehand or by washing in brush washers that are poorly maintained (worn, dirty brushes, etc.).

Washing chemicals, general: different agents are recommended for different types of dirt. Always follow the manufacturer's recommendations for use, dosage and maximum temperature. Avoid chemicals drying into the paint surface.

Washing detergent: avoid using strong alkaline agents (pH >12). Do not wash the vehicle in direct sunlight. Rinse with plenty of cold water before chemicals are applied if the temperature is above 30 °C. Wash small areas and then rinse clean so that long exposure times or drying chemicals are avoided.

Headlight cleaning

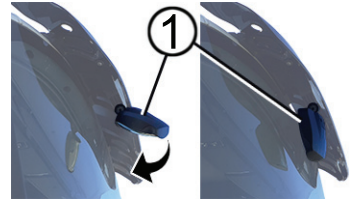
The plastic lenses of the headlamps are made of polycarbonate, and are sensitive to chemicals. For this reason, only clean with soap solution and clean water. Only clean plastic lenses when they are cool. Always use clean sponges and cleaning cloths. Do not use high-pressure washing for washing.

Machine washing

In the event of heavy soiling the truck should be pre-washed before machine washing.

When an automatic washing station is used to wash the vehicle, fold down the side mirrors without forgetting the forward view mirror (1), so that they are not damaged.

Do not forget to fold up the front mirror and other mirrors again when washing is finished.



Washing the chassis

Both chassis and cab should be washed as soon as they are dirty.

Be particularly careful with high-pressure washing of axles, joints and other moving parts where water and dirt can be forced in. Avoid flushing away lubricant. Should this still happen, make sure you re-lubricate the components.

Washing detergent: avoid using strong alkaline agents (pH >12). Do not wash the vehicle in direct sunlight. Rinse with plenty of cold water before chemicals are applied if the temperature is above 30 °C. Wash small areas and then rinse clean so that long exposure times or drying chemicals are avoided. Always rinse with plenty of water after using washing detergent.



Never spray water directly onto sealings, gaskets, electrical cables or contacts.



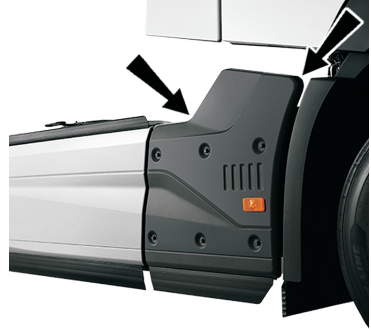
TO AVOID FIRE HAZARDS, KEEP THE AREA AROUND THE PARTICLE FILTERS CLEAN.



The particle filters and exhaust pipes can be very hot. Take care to avoid burns.

It is very important to clean the area around the exhaust system. Carefully clean all areas where impurities may build up.

In some cases, fairings may make access difficult. Pay careful attention to these areas.



Cleaning

Cleaning around the exhaust system is very important. Remember to clean all areas where dirt can accumulate.

In certain cases, bodywork may make it difficult to clean hot areas. Remember that cleaning can be carried out from the wheel housing and from underneath if access from above is difficult.

Keep the area around hot components clean.

After washing

After washing the truck should be lubricated. Test the brakes immediately after washing.

Keep the engine clean. Wash off any oil or diesel spillage. Use hot water for cleaning the engine and use high-pressure washing with caution. Avoid spraying water on the alternator, starter motor and other electrical components. If degreaser is used then the drive belts must be protected.

Polishing and waxing

Maintaining the truck's paintwork in good condition requires that it is waxed regularly. The wax adds shine and helps to protect against corrosion, UV radiation, acid rain and other damaging precipitation. You will have a truck that is easier to keep clean; you save the environment and maintain the value of the truck.

Painted surfaces

Over time the cab's paint may appear slightly dull. Delay this process by regularly waxing the cab. If the cab paint deteriorates then use a mild form of polishing agent. Consider the recommendations from the manufacturer of the products as well as the following general rules. First wash the truck in accordance with the above and allow it to dry. Then use a polishing agent or deep cleaning agent with only a small amount of abrasive components. Wax with a liquid wax. Only use clean cloths/rags, etc. Work over the paint surface applying moderate pressure.

Chrome plated parts

First wash the chrome with the same agent used for the rest of the cab. Use concentrated washer liquid to remove any film. The chrome can then be waxed with the same wax as the rest of the cab. Never use cleaning agents containing abrasives on chrome parts.

Steel rims, maintenance

Steel wheel rims are often exposed to different types of contaminants, such as road dirt, oil, asphalt, tar and brake dust. Regular maintenance is required in order to protect the wheel rims from discolouration, corrosion and unnecessary wear. A protecting wax is used for additional protection, for example, when driving on salted roads, in slush or in coastal environments.

Damage to the wheel rim's paint must be remedied immediately to prevent corrosion.

Clean the wheel rims regularly. First rinse with water, preferably use high-pressure washing. Use a brush or sponge to clean the wheel rim.

For stubborn dirt, an alkaline cleaning agent (pH>7) may be used.

Lightweight steel rims

Your truck is equipped with wheel hubs that are not compatible with so-called lightweight steel rims. Do not use this rim type.

Cab, interior cleaning

To maintain the condition of the interior and a good work environment you should clean the inside of the truck regularly. A well-maintained interior also helps to maintain the value of the vehicle. Remember that stains are always a lot easier to remove immediately, before they have had time to dry out.

Textiles

First vacuum clean to remove loose dirt. Then use a foam cleaning agent to lift away remaining dirt. Avoid scrubbing with hard brushes. When all of the textile surfaces are treated, let them dry overnight. Vacuum clean thoroughly to remove the dry foam and remaining dirt.

Vehicle cleaning

For the seats, beds and textile mats, water and a synthetic washing agent can be used. However, never use water or water-based cleaning agents on the headlining and wall panels.

Leather

Vacuum clean. Use special cleaners for leather upholstery.

Your vehicle is equipped with a leather steering wheel, we recommend that you take care to:

- Avoid contact with harsh materials (solvent, hydro-alcoholic gel, concrete, hydrocarbons, chemical products...).
- Avoid contact with water.

Leather is an organic material. Take care of it to avoid deterioration.

- Regularly clean the steering wheel with a specialized product.
- Condition the leather with a leather maintenance product recommended by RENAULT TRUCKS.
- Remove excess product with a dry cloth.

Vinyl

Water and a synthetic washing agent can be used.

Headlining and wall panels

Never use water or water-based cleaning agents.

Instrument panels and door panels

Use soapy water.

Seat belt

Water and a synthetic washing agent can be used.

Floor mats and engine cover upholstery

Vacuum clean or sweep clean. Wash with water from time to time, in particular during winter.

Displays

The information displays have protective plastic screens. Cleaning must be carried out using a vacuum cleaner. Wiping off with a cloth may scratch the surface.

Instruments

The instrument has protective plastic screens. Clean carefully use a vacuum cleaner to prevent scratches.

Remove spots on the glass as soon as possible using a clean or new microfibre cloth and warm water.



Do not use washer fluid or other alcohol based cleaning agent on the instrument panel.



All alcohol-based, petroleum-based or trichlorethylene products should be avoided. The use of such products would risk damaging the trim and other materials.

Treat stains as quickly as possible!

Stains on textiles

Remove particles not stuck to the stain. Absorb as much as possible with clean cloths. Treat the stain from the outside in and towards the centre of the stain using a removal product. Remove the part of the stain that has dissolved by wiping it. Continue until the whole stain has disappeared.

Be very careful with the quantity of remover: the stain might spread.

Stains on leather

Use warm, mild soapy water. Never scrape or rub. Never use strong solvents such as petrol, white spirit or alcohol.

Stains on vinyl

Never scrape or rub. Never use strong solvents such as petrol, white spirit or alcohol.



Breakdown, quick fixes

Switching to hibernation mode

When parking the vehicle for more than one day or if you need to transport it by ferry, train or heavy transport, we recommend that you switch it to hibernation mode.



The vehicle will not monitor battery temperature in hibernation mode, as this risks damaging them.

Before putting the vehicle into hibernation mode, make sure it is parked away from extreme heat or cold.

- Press the Start and Stop button to switch the vehicle to stop mode.
- Give a short press on the hazard warning lights button (2).
- Immediately after releasing the hazard warning lights button, press it again and keep it pressed down for at least 5 seconds.
- Wait for at least 30 seconds.



You can check that the vehicle has gone into hibernation mode by opening the doors: the lights on the steps should remain unlit.

Exiting hibernation mode

With the key in the cab, switch the vehicle to ignition mode using the START/STOP button.

Starting the vehicle with external assistance

If the truck's batteries have been fully discharged, the truck may need electrical starting assistance from another vehicle or other batteries.

In the event of non-starting using the vehicle accumulator batteries, an external current source can be used (battery trolley or another vehicle).

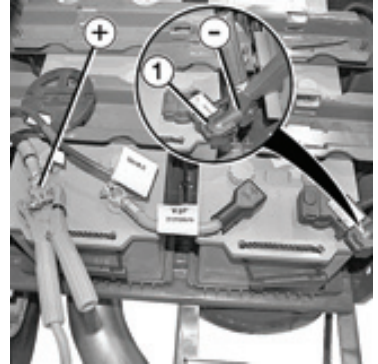
Procedure:

- Set the vehicle into low energy consumption mode.
- Connect starter adapter to a battery trolley or to another vehicle using the extension piece provided.
- Exit the vehicle from low consumption mode using the remote control or engage the master switch.
- Actuate the starter.
- Keep the engine at an engine speed of **1300 rpm** for approximately **5 minutes**.

- Switch on the dipped beam headlights before returning the engine to idle speed.
- Let the engine idle for 1 minute.
- Disconnect starter adapted from the battery trolley or the other vehicle.
- Switch off the headlights.



Ensure you connect the negative clamp on battery sensor (1), cable end.



The use of a power charger to aid starting is forbidden (damage to electronic systems).

For this operation, contact a RENAULT TRUCKS garage.

Location of the jack and tool kit

To help you face an unexpected situation, your vehicle is fitted with a light tool kit. Check regularly that all the tools are present and in good condition.

Cab exterior locker

Opening

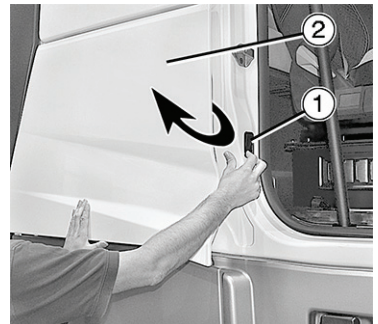
Open the passenger door.

Press control (1) to unlock the door. Lift the door (2).

A light comes on when the door opens.

Closing

Push the door (2). Locking is automatic.



Storing tools in the locker

Tool kit:

- Hexagon wrench, 6 millimetres.
- Cab lift control bar, jack and wheel wrench handle.
- Wheel wrench.
- Tyre pressure extension pipe.
- Tyre pressure adapter.
- Adjustable wrench.
- Clamps.



Jack.

Jack spacer.

Strap.

Advance warning triangle(s).

Towing yoke.

Replacing a wheel

In the event of a puncture, you must use a spare wheel.

Be careful, there are certain risks involved in changing a wheel. Consult the chapter on changing a wheel or, if in doubt, call the nearest service point.

When you handle the spare wheel or the wheel to be changed, be careful and anticipate the risk of the wheel falling at each stage.

Stop the vehicle in a suitable place, without causing a traffic disruption, so that you can move around the vehicle without danger for yourself or others.

The ground must be flat and stable.

Stop the engine.

Activate the parking brake. Refer to the "Parking brake" chapter.

Switch on the hazard warning lights.

Switch off the ignition.

To locate the safety vest, warning triangle, hazard lamp, tool kit and jack, refer to "Location of jack and tool kit".

Put on the safety vest before going to position the safety triangle and the hazard lamp at a sufficient distance away.

Chock the vehicle. Refer to the "Wheel chocks" chapter.

If necessary, uncouple the trailer. Refer to the "Turntable fifth wheel" chapter.

To retrieve the spare wheel, refer to the chapter "Spare wheel retainer".

Check that the spare wheel is in a good condition.

Place the jack under the vehicle below a jacking point. Use the recommended jacking points. Refer to the chapter "Use of the jack".

Put the suspension in the low position.

With the wheel still on the ground, loosen the wheel nuts without removing them.

Release the brakes on the wheel that is to be replaced, otherwise there is risk that the brake drums may become oval.



STOP

UNCONTROLLED LOWERING OF THE VEHICLE COULD RESULT IN SERIOUS MATERIAL DAMAGE, SERIOUS INJURY OR EVEN DEATH.

- NEVER MOVE BELOW THE VEHICLE WHEN IT IS HELD UP ON A JACK.
- PLACE THE JACK ON A FIRM, HORIZONTAL SURFACE WITH GOOD ADHESION.
- THE JACK MUST ONLY BE USED TO LIFT THE VEHICLE FOR A BRIEF TEMPORARY PERIOD.
- THE JACK MAY LOWER OR COLLAPSE IF THE VEHICLE IS SUPPORTED FOR TOO LONG OR IF THE VEHICLE MOVES.
- THE JACK MUST ONLY BE POSITIONED AT THE RECOMMENDED JACKING POINTS.
- ONLY USE THE TOOLS PROVIDED IN THE RENAULT TRUCKS TOOL KIT.
- NEVER START THE VEHICLE, MOVE THE BODY OR CLIMB ONTO OR INTO THE VEHICLE FOR AS LONG AS IT IS LIFTED.

Using the jack provided with the tool kit, lift the vehicle so that the wheel to be replaced, free from load, is no longer in contact with the ground.

Completely remove the wheel nuts, then pull the wheel off.



Be careful not to damage the threads of the wheel studs when removing/fitting the wheel.



STOP

BE AWARE OF THE RISK OF THE WHEEL FALLING OFF AND OF THE HINDRANCE IT COULD CAUSE ON THE CARRIAGEWAY.

STOP

FOR YOUR SAFETY AND THAT OF OTHERS, USE ONLY THE TOOLS AND WHEELS SUPPLIED BY RENAULT TRUCKS THAT ARE RECOMMENDED FOR YOUR VEHICLE.

Carefully position the new wheel, taking care not to damage the studs. Refer to the chapter "Tyre load index and pressures", section "wheel and tyre".

Tighten the wheel. Refer to the "Tightening of wheels" chapter.

Check the tyre pressures.

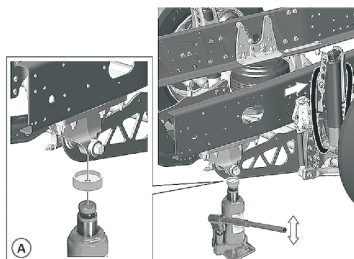
Before setting off again, put the suspension back into the road position.

Using the jack

Front jacking points

Front axle lifting procedure

- Engine running,
- chock the vehicle,
- tilt the cab,
- lift the air suspension,
- position the jack and the spacer supplied in the tool kit under the reaction bar bracket (A),
- lower the air suspension,
- stop the engine,
- position and tighten the strap supplied in the tool kit around the anti-roll bar and the chassis,
- lift the axle with the jack.

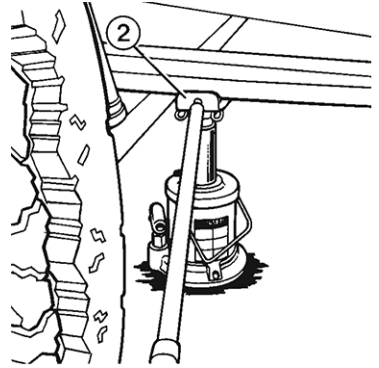


STOP

- **NEVER MOVE BELOW THE VEHICLE WHEN IT IS HELD UP ON A JACK!**
- **PLACE THE JACK ON A FIRM, HORIZONTAL SURFACE WITH GOOD ADHESION.**
- **FIRMLY CHOCK THE WHEELS THAT REMAIN ON THE GROUND.**
- **RELEASE THE BRAKES ON THE WHEEL TO BE REPLACED.**

Removing the jack

If necessary, use the jack bar to release adapter (2).



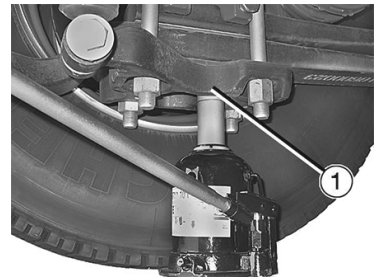
Rear jacking points

Rear jacking points (1)



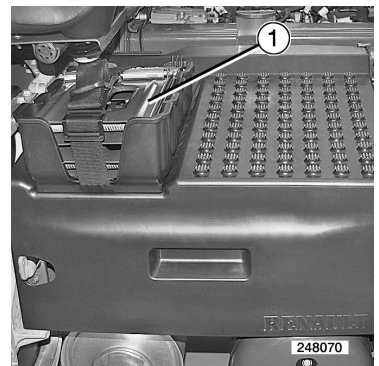
Chock the front road wheels.

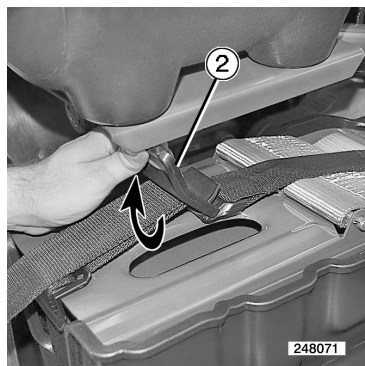
Put the suspension in the low position.



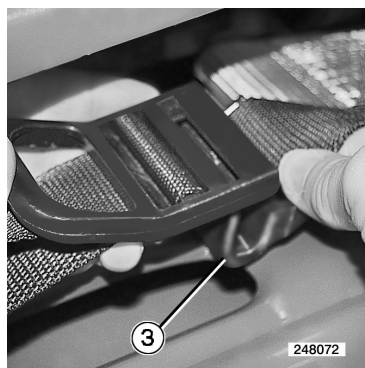
Wheel chocks

To remove chocks (1), loosen the attachment strap by lifting the ring (2).

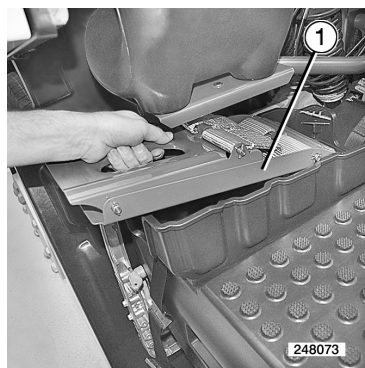




Pull out the hook (3).



Remove the chocks (1).



When refitting the attachment strap, ensure the wedge is correctly positioned on the angle (4) of the chock.



Towing

If the truck can no longer be controlled, it might be necessary to tow it to a workshop. Certain corrective measures must be made first so as not to damage the vehicle, and to avoid an accident.

Securing the vehicle for towing

Make sure that all the safety conditions have been applied before working on the vehicle.

It is very hazardous to walk around a vehicle that has stopped on a busy road. Do not take needless risks.

To do this, remember to:

- Put the gearbox in neutral.
- Activate the parking brake.
- Activate the hazard warning lights.
- Wear your safety vest.
- Position the hazard triangle at least 200 metres behind the vehicle.

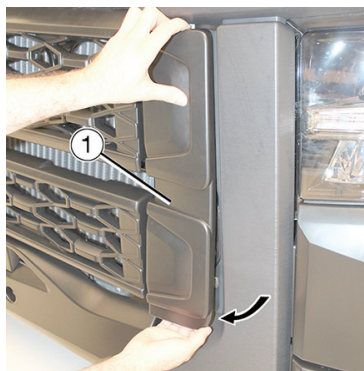
Front towing yoke

If your vehicle must be towed, use the towing eye (2) supplied with your vehicle's on-board tool kit.

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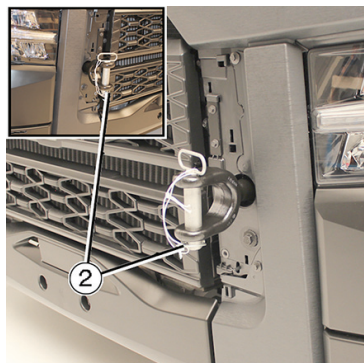
Hold hatch (1) by the lower part.

Pull the lower part to pull out the hatch (1).

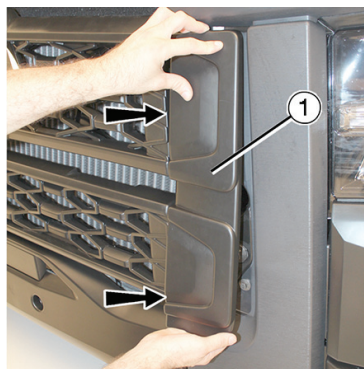


Tighten the yoke (2).

Towing eye (2) can be screwed independently into the location on the right-hand or left-hand side.



Push on hatch (1) with both hands to engage it.



If the vehicle engine is faulty:

- Neutralise the brake cylinders manually if there is no air pressure.
- The steering is heavy because the power-assisted steering system is not operational.
- Shift the gearbox into neutral.
- Remove the transmission.
- Use the towing eye.



To avoid damage to the gearbox, the drive shaft must be removed when towing with the drive wheels on the ground.



Chock the vehicle wheels.

Release the parking brake

If you cannot start the truck's engine or if there is an electrical fault, the parking brake must be released in order for it to be possible to move the truck.

There are three ways to release the parking brake.

- In the event of an engine fault, fill the pneumatic system with air from e.g. another truck.
- In the event of an electrical fault, release manually.
- Mechanical unloading of the parking brake springs.

There are three ways to release the parking brake.

- In the event of engine failure, it is possible to fill the air system with air from another truck. You will then be able to use the parking brake control in the cab.
- In the event of an electrical fault, you can manually release the parking brake by injecting air into the air circuit, as explained in this section, see Releasing the parking brake in the event of an electrical fault page 364.
- By mechanically releasing the springs on the parking brake.



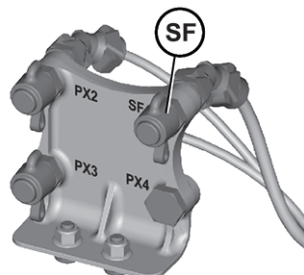
Chock the vehicle wheels.

Fill air into the pneumatic system

The bracket for filling air is located at the rear or on the left of the chassis.

When filling air from e.g. another truck, the test nipple marked with SF (system fill) on the bracket must always be used. Then the incoming air is dried and moisture does not enter the system.

Other connectors marked with PX2, PX3, PX4 are test connections for brake pressure on the rear axles.



The connector for filling compressed air is marked with SF.

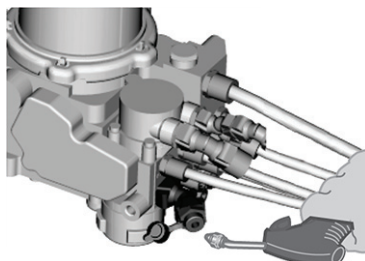
Releasing the parking brake in the event of an electrical fault

For some electrical faults, the electrically operated parking brake is not released. If there is compressed air in the system, then it can be released manually.



If this instruction is not followed, some error codes can be set.

1. Put the vehicle in park mode, see the START/ STOP button section.
2. Wait for 2 minutes until all electronic control units are deactivated.
3. Connect the external air supply. For example, use a blow gun on the nipple fitting as shown in the illustration.
4. Fill the air circuit to a maximum of 8.5 bar. (If there is too much pressure, an error message will be displayed once the vehicle has been restarted).
5. Disconnect the external air supply. (In the event of a leak during towing, it is



recommended to leave the nipple connected to the air supply to avoid unintentionally applying the parking brake).

6. The parking brake is released.

The parking brake can be applied again by evacuating the air system via the same nipple.

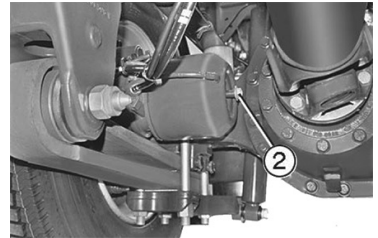


If in doubt, please consult your local Renault Trucks dealer.

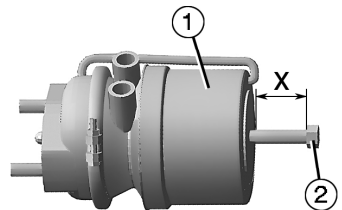
Releasing the parking brake mechanically

Depending on your vehicle's equipment

In the event of accidental loss of pressure, proceed as follows to move the vehicle (towing): using a 24 mm wrench, loosen bolt (2) on each brake cylinder until the road wheels are free.



Bolt protrusion length X (2) differs (15 mm or 65 mm) depending on the type of brake cylinder (1).

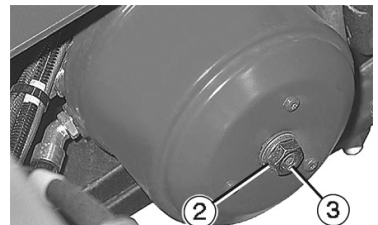


Release the parking brake

In the event of accidental loss of pressure, proceed as follows to move the vehicle (towing): using a 24 mm wrench, turn bolt (2) on each brake cylinder anti-clockwise until the wheels are free - red mark (3) should be exposed.

Depending on your vehicle's equipment

Recommissioning: pressurise the circuit with a pressure of approximately 5 bar. Offer up bolt (2) into



Breakdown and quick fixes

contact with the cylinder and tighten it to a torque of 75 Nm or turn it clockwise and tighten it to a torque of 75 Nm; red marking (3) should be obscured.



*A nut tightener must **not** be used because the cylinder can be damaged.*

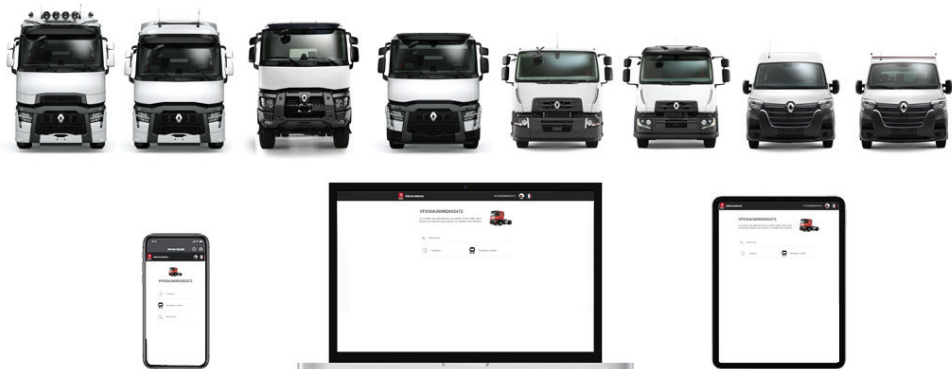


Always fill air in the parking brake tanks, when available, and untighten the parking brake to make it easier to unscrew the nut. This protects the brake cylinder from unnecessary wear.



Some trucks have parking brake cylinders on both the front and rear axle.

Access to the Driver Guide





To use the Driver Guide:







- Go to:
<https://driverguide.renault-trucks.com/>
- or
- scan the QR code to find the driver guide app.
- or
- search for "...Renault Trucks Driver Guide" in your app download site.



You will find all the necessary information relevant to your specific Renault Trucks vehicle.

We reserve the right to make changes to this publication in the interests of constantly improving our output. The digital version will always contain the most up-to-date information.

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Country	Certificate authority	Mark/Number/QR	Item
Algeria	ANF	137/H/ANF/2021	<u>Keyfob</u>
Algeria	ANF	138/H/ANF/2021	SCIM
Ghana	NCA	NCA Approved : 7E5-7M-XAC-RDR	<u>Keyfob</u>
Oman	TRA	OMAN-TRA R/10731/20 D172338	<u>Keyfob</u>
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Malaysia	SIRIM			<u>Keyfob</u>
Malaysia	SIRIM			SCIM



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